Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

BUSINESS STEADILY INCREASING IN VOLUME

Every indication points to a period of prosperity for this country, the like of which has never been seen. Increased business is slowly being built on the foundation of unusual returns to agricultural interests. The self-denial of the last few months, following a period of personal retrenchment over a series of years, has resulted in the accumulation of a vast fund which is now awaiting investment. The financial condition of the country was probably never on a more stable basis, nor were there ever such opportunities for the extension of credit. In many lines there has been no increase in business felt, but in others, particularly those related to munitions of war, the business booked has been phenomenal.

A large part of the increased business is due to the unbounded confidence of men of large affairs who are willing to risk their time and capital in new enterprises. The machine tool builders have enjoyed a period of activity they scarcely dared to hope for, and this is extending throughout the lines of metalworking machinery.

The Construction News Department last week published more items of new construction than ever before in the history of the paper. A great many of these reports were projects, but they indicate that construction work will soon go ahead.

Every effort was made by bankers and financial institutions to keep down construction work to the lowest possible point from early last spring until recently. Now that financial institutions have a plethora of money they have been anxious to let it go out on short-term loans. Since this is impossible in many cases, they are letting down the bars for long-time investments. It is natural, under such circumstances, that there should be more projects developed than before in many months. While there is no likelihood of there being a surplus of work for some time, it is more than possible that it will be difficult to secure labor later in the year to complete much of the work under way.

It is estimated that it will be impossible to operate the steel mills to full capacity because of the shortage of raw labor and the inability to secure more from abroad. If such is the case in the steel trade, it will appear much more in the construction field.

It was said a few years ago by one versed in business, that the price of copper served as more of a barometer of trade activity than the price of pig iron. Events since that time, while they have not proven such a theory, have at least showed that there is substantial ground for the statement. If this is true, we are on the threshold of a veritable boom, because copper is now at a higher price than at any time during the last eight years, and the demand continues unabated.

Sales of pig iron in the last two months were about three times as much as during the first two months of the year.

Building returns show a steady gain in almost all sections of the country except New England and the Pacific Coast States.

Orders for munitions of war are coming in so fast that most of the shops able to do work of this character have all they can do. The activity is stimulated all along the line for what one shop is unable to manufacture is turned over to another.

Some long delayed projects are being reopened—the Muscle Shoals Development in Alabama, the Municipal Bridge at St. Louis, the Transit System in Philadelphia and a terminal in Chicago.

LABOR

A few strikes have occurred, and the building strike in Chicago was of some importance. In general, however, labor seems to be awaiting a more propitious time before making further demands. There is a general impression that a shortage of rough labor will develop later in the year unless more workers come from the south of Europe, which seems highly improbable at this writing.

CEMENT, LIME AND BRICK

Portland Cement—Some extremely low prices have been made in the New York market. It is reported on excellent authority that $1.19 has been done. This is equivalent to about 53c. per bbl. in bulk at the mill. How any of the mills which would sell at a figure like that can make cement anywhere near that price is a question. It is probably below cost. Other mills are quite generally asking $1.23, but one important interest is getting $1.31. To describe the market as far as New York and vicinity are concerned would be to say that is is spotty. There is no other term which can readily be applied to it. Dealers are stocked up and have large supplies on hand. Sellers of reinforcing steel report that they are busier figuring on estimates and that the outlook is very satisfactory. Cement manufacturers can see no hope in the future. It is perhaps the dullest time in the cement trade that there has been in the last four years. Unless signs fail, the cement industry will pick up very shortly, and the gain will probably be more rapid than in other lines of industry. Some concerted effort has been made to establish export trade, but without any particularly great success. In New Jersey quite a little cutting is evident, particularly for one mill. In the West prices are fairly strong.

Quotations for cement, less the charge of 40c. made for bags, are as follows:

Chicago	$1.11	Boston	$1.46
Detroit	1.19	Cleveland	1.16
Jersey City	0.74	Duluth	1.32
New York	0.82	Minneapolis	1.30
St. Paul	1.30	Pittsburgh	1.00

Brick—The market for brick shows more activity and prices are slightly firmer. As yet there is not enough business to seriously test quotations, and it remains to be seen whether an attractive offer would not bring somewhat lower prices. The delivery of brick to the New York market has been much larger so far this year than in the corresponding period last year. Hudson River common in New York are quoted at $5.75 to $6. In Newark, from yard, the price is $6.75.

Crushed Stone—Business is light, with no change in price. Sellers of crushed stone are not anxious to load up with long-time contracts at these prices, but on the other hand, if they do not take the business, some one else will. Some contracts are being made at the prevailing quotation, which is comparatively low, at 95c. for 1½-in. stone, $1.05 for ¾-in. stone.

Gravel—The prices of gravel are lower, and extremely low quotations have been made on subway gravel to stimulate business. Gravel which will pass Public Service Commission specifications, commonly known as subway gravel, sells at 95c. to $1. For 1½-in. gravel the price is 80c., while ¾-in. commands 85c. These prices are for barge lots of 500 cu.yd. delivered alongside of docks, New York.

Lime—Prices are somewhat easier, standard 300-lb. special finishing selling at $1.55 to $1.60, Eastern common at $1.15.

IRON AND STEEL

Pig Iron—After the excitement caused by the Buffalo buying movement, reported last month, pig iron was quiet. The amount of business that was uncovered by the reduction is considered a sign that general conditions are much more satisfactory than has appeared on the surface. In fact since that time and during all of April the character of the business done both by northern and southern furnaces indicated a healthy tone underlying the situation. Numerous orders were forthcoming. Prices remained normal except in the instance of the Birmingham furnaces selling at a 50c. reduction on one special lot of orders amounting to 100,000 tons, generally understood to be for speculation, although some mystery seems to be attached to the transactions. During April pig iron sales in all quarters amounted to about 550,000 tons, the bulk of the large orders being placed during the last week of the month. About one-half of the recent sales were made by southern furnaces at an advance of 25c. to 50c. per ton, but mostly at minimum prices as in other sections of the country. Nearly all of the transactions reported were for delivery over the second half of the year. Some improvement in buying of small lots for nearby shipment was to be noted. During March and April consuming and speculative interests purchased about 1,150,000 tons, while during January and February the total sales were only about 425,000 tons.

Prices for lots of 100 tons or over at the points named, are as follows: Cincinnati, Southern Foundry No. 2, $12.50 to $12.75; Cincinnati Northern Foundry No. 2, $14 to $14.50; Cincinnati Northern Foundry No. 3, $13.75 to $14. In New York quotations are as follows: No. 2X Northern Foundry, $14 to $14.25; No. 2 plain Northern Foundry, $13.75 to $14; No. 2 Southern Foundry delivered, $14 to $14.25. In Birmingham Southern Foundry No. 2, $9.50 to $9.75; Chicago Northern Foundry, $13.25 to $13.75; Pittsburgh bessemer iron is $14.55 and basic $13.45 including the 95c. freight rate from the valley to the Pittsburgh district.

Steel Rails—It was generally expected in the steel trade that the Pennsylvania R.R. would let its contracts for 160,000 tons of rails, or thereabouts, shortly after the bids were asked on about $25,000,000 worth of equipment, which announcement was made near the middle of the month. The company, however, did not make any move in that direction, and rail business has been extremely quiet. There seems to be no reason why the railroad should be in any haste to place contracts, as the mills have little or nothing to do and there is no danger that deliveries will be long delayed, even should orders go in late in the season.

The Chicago Rys. placed an important order involving 20,000 tons of girder rails with the Lorain Steel Co., and the Atlantic Coast Line bought 6000 tons, which went to the Tennessee Coal & Iron Co. The Burlington bought 2000 tons, and the Buffalo, Rochester & Pittsburgh about the same amount.

It is recognized that the railways have considerable tonnage left over from last year. It is more or less generally understood that there has been considerable bickering regarding the price. The mills have steadfastly refused to make any concessions, nor is it likely that they will. The Public Service Commission of New York will soon put out its specifications for 5000 tons of 100-lb. rails, a Western railway has purchased 5000 tons. For the first time in several years there has been a fairly spirited demand for bolts, spikes, tieplates, and other track fastenings. This has had no effect on prices as yet, all of which are low. The standard prices for lots of 1000 tons are as follows: Standard sections of bessemer, $28; open hearth, $30; both per net ton and f.o.b. Pittsburgh; girder rails in 30-ft. lengths are $36.40 per gross ton, and in 60-ft. lengths $38.40 per gross ton, both f.o.b. New York. Other quotations f.o.b. Pittsburgh for large lots, the price being given in cents per pound, are as follows: Standard sections, 1.25c.; 25 to 30 lb., 1.15c.; 15 to 20 lb., 1.20c.; 12 to 18 lb., 1.25c.; 8 to 12 lb., 1.30c. Relaying rails, standard sections both Pittsburgh and Chicago, are held at $23 to $24. Light relaying rails can be had at around $22 to $22.50 Chicago.

Structural Shapes—The price of 1.20c. is generally asked, although it is cut frequently. The favorite method is to offer concessions on fabricated steel work. Some extremely low prices have been made, particularly for subway work in New York and one or two apartment houses, which developed unusually keen competition. One of the largest jobs is for 24,000 tons of fabricated work for the approach to the Municipal Bridge, St. Louis. This matter has been dragging through the courts and various injunctions for several years, but now bids fair to be completed. Numerous jobs have been awarded within the last month; one of the large ones outside of the subway work is for the Frick Arcade in Pittsburgh, involving 6000 tons, but most of the work has been small. Competition, however, has been particularly keen. Quotations are slightly firmer; while the base price is $1.20 yet there is some question whether this has been strictly maintained. For I-beams 3 to 15 in., channels 3 to 15 in., angles 3 to 6 in., T's 2 to 3 in. and over, $1.20. Other quotations quote I-beams over 18 in., H-beams over 18 in., channels over 15 in., angles over 4 in., $1.25. T's $1.25, deck beams and bulb angles $1.55, handrail T's $2. Cutting to specified lengths is charged at the following rates: 3 ft. to 2 ft. inclusive, 25c. per 100 lb.; 2 ft. to 1 ft. inclusive, 50c. per 100 lb.; less than 1 ft., $1.55. No charge is made for cutting to lengths over 3 ft. In Chicago, the base price for mill deliveries is $1.39. In Philadelphia, the base price is $1.31, and in New York the base price is $1.36. In San Francisco quotations vary from $2 to $2.05. All these prices are per 100 lb.

Plates—No contracts have been taken during the month for shipbuilding work, but the plants seem to be fairly busy. There is room, however, for considerable improvement in this direction. The price is more firmly held than at any time within the last few months; but occasional concessions are made, amounting to a dollar per ton, from the regular quotation of $1.20 Pittsburgh. This is equivalent to $1.29 Chicago, $1.30 to $1.35 Philadelphia, and $1.32 to $1.37 New York. Of particular importance was the announcement that the Pennsylvania R.R. would buy or build in its own shops more than 16,000 freight cars, nearly 200 locomotives, and 181 all-steel passenger cars. The outlay for this equipment will aggregate $25,000,000. This is probably the largest equipment order or inquiry ever put out at one time, although last year the New York Central purchased 12,000 cars and the previous year the Pennsylvania bought 12,300 and the Harriman lines over 13,000. It is semi-officially announced that this order is simply to replace equipment, either worn out or obsolete, on the line, and does not really make any addition to the carrying capacity of the railway, except where cars of larger capacity are substituted for comparatively small cars. The Chicago & Northwestern has an inquiry in the market for 2000 box cars, the International Great Northern one for 1000 cars, and some small orders for various kinds of equipment are on the market.

Cast-Iron Pipe—The market is spotty. In Birmingham and Chicago, prices are slightly lower, but in New York somewhat higher. Philadelphia is in the market for about 10,000 tons of pipe, and Newark has a large inquiry in the market, but in general, cast-iron pipe is dull. One reason for this is the heavy buying in January and February, and comparatively little new work is coming up just at present. There is, however, a great deal of projected work, which will probably mean a largely increased demand for pipe later in the year. Prices for cast-iron pipe are as follows, per net ton: In Birmingham, 4 in. and larger, $19.50; in New York, 4 in., $21.50 to $22; 6 in., $20.50 to $21; in Chicago, 6 to 12 in., $24., larger sizes, $23; in Cleveland, 6 in. and larger, $24. Gas pipe can be had at $1 per ton higher in all markets.

Pipe—A few inquiries are coming out, but there have been no large orders, except 19 miles of 8-in. and 12 miles of 12-in. line pipe. Galvanized pipe is in fair demand, but prices are so high that it is only purchased when the purchaser has a good idea of where it can be sold. It is generally conceded that just as soon as the abnormal conditions incident to the war are over, galvanized pipe will be materially cheaper. In small sizes, pipe is not in very great demand, but jobbers and retailers are both allowing their stocks to remain at practically the minimum, though with any return of a good demand, the mills should quickly feel it. Discounts are unchanged, and for orders amounting to a carload or more, are as follows:

	Black	Galvanized
¾- to 2-in. steel, butt welded	80%	69½%
2½- to 6-in. steel, lap welded	79%	68½%
7- to 12-in. steel, lap welded	77%	66½%

At these discounts, the net prices of pipe per foot, in large lots, at Pittsburgh are as follows:

Diameter	Cents Black	Cents Galvanized	Diameter	Cents Black	Cents Galvanized
⅜-in.	2.20	3.50	5-in.	31.00	47.00
1-in.	3.40	5.20	6-in.	40.40	61.00
1¼-in.	4.60	7.00	7-in.	55.00	80.00
1½-in.	5.50	8.40	8-in.	57.50	84.00
2-in.	7.40	11.15	9-in.	79.50	$1.16
2½-in.	12.20	18.60	10-in.	95.00	$1.38
3-in	16.10	24.20	11-in.	$1.06	$1.55
4-in.	22.90	34.50	12-in.	$1.17	$1.70

Sheets—The market is extremely uneven. Some of the independent mills are operating to full capacity, and those of a leading consumer to about 70% of maximum capacity. The demand for galvanized sheets is fair, but the price is so abnormal that no one wishes to lay in stocks nor contract for deliveries any distance ahead. This means that the market is subject to violent fluctuations at times, incident to the rise and fall of the spelter market. During the month a cut of $3 per ton was made in galvanized sheets, which was quickly followed by putting the price back to the old basis. Black sheets are in larger demand than galvanized, and there is no doubt that the high price of galvanized is restricting consumption. The following quotations are for large lots of sheets, Pittsburgh, and small lots from store, New York:

	Cents per Pound — Large lots Pittsburgh		Warehouse delivery New York	
	Black	Galv.	Black	Galv
No. 10	1.55	2.40	....	....
No. 12	1.55	2.50	....	....
No. 14	1.60	2.50	....	....
No. 16	1.65	2.60	2.35	3.25
Nos. 18 and 20	1.70	2.80	2.40	3.40
Nos. 22 and 24	1.75	2.90	2.45	3.55
No. 26	1.80	3.05	2.50	3.70
No. 27	1.85	3.25	2.55	3.85
No. 28	1.90	3.40	2.60	4.00

Steel Sheet Piling—Prices are practically without change at 1.50 to 1.60c. per lb., f.o.b. Pittsburgh.

Wire Rope—Manufacturers of rope report that business is somewhat better, but still not up to normal. Discounts are unchanged at 47 and 5 per cent., list, for galvanized, and 55 and 5 per cent. for bright. At these discounts the net prices of wire rope at the mills are as follows:

Diameter in Inches	Price per Foot — Cast Steel	Crucible Steel	Plow Steel
2½	$0.75	$0.90	$1.07
2¼	0.61	0.73	0.86
2	0.47	0.57	0.67
1¾	0.39	0.49	0.58
1½	0.28	0.34	0.40
1¼	0.20	0.24	0.27
1	0.13	0.15	0.18
¾	0.08	0.09	0.11
⅝	0.06	0.07	0.08

Freight Rates—The freight rates on finished steel products from the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized, wire nails, rivets, spikes, bolts, black sheets (except planished), chain, etc., are as follows, in cents per 100 lb.: Boston, 18.9c.; Buffalo, 11.6c.; Baltimore, 15.4c.; Cleveland, 10.5c.; Cincinnati, 15.8c.; Chicago, 18.9c.; Denver, Colo., 68.6c.; New Orleans, 30c.; New York, 16.9c.; Philadelphia, 15.9c.; St. Louis, 23.6c.; Minnesota and St. Paul, 32.9c.; Pacific Coast (all rail), 80c.

Merchant Steel—Jobbers have had more business within the last month than in several months past. The dealers have not advanced their quotations, and consumers who have formerly dealt in carload lots are now more willing to buy in small quantities and wait to see how the market will develop. Prices for small lots from jobbers' store of bar iron, steel angles, shapes, are as follows:

	Cents Per Pound
Refined iron:	
1 to 1⅞ in., round and square	1.85
1½ to 4 in. x ⅜ to 1 in	1.85
1½ to 4 in. x ¼ to ⅜ in	2.05
Norway bars	3.20
Burdens bar iron	3.15
Soft steel:	
¾ to 3 in., round and square	1.85
1 to 6 in. x ⅜ to 1 in	1.85
1 to 6 in. x ¼ and ⅝	2.00
Rods—⅝ and 1⅛ in	1.95
Bands—1½ to 6x⅛ in. to No. 8	2.15
Beams and channels—3 to 15 in	1.90
Angles:	
3 in. x ¼ in. and larger	1.90
3 in. x ⅛ in. and ⅛ in.	2.35
1½ to 2½ in. x ⅛ in. and thicker	2.00
1 1/16 to 2½ in. x ¼ in.	2.10
1 to 1¼ in. x ⅜ in	2.10
1 to 1¼ in. x ⅛ in	2.15
Tees:	
1½ to 2½x¼ in.	2.05
1½ to 2½x⅛ in.	2.15
3 in. and larger	1.95

Old Materials—From all parts of the country similar reports are current. The market for old materials is lower; there is less doing than a month ago. In New York quotations have not been revised so drastically as in other parts of the country, but prices for pipes and flues are considerably lower. Quotations for scrap in that market, per gross ton, are as follows:

	Per Gross Ton
Heavy-melting steel scrap	$8.75 to $9.00
Pipes and flues	7.25 to 7.75
No. 1 railroad wrought	10.50 to 11.00
Stove plate	7.75 to 8.00
No. 1 machinery cast	10.50 to 11.00
Wrought turnings	6.25 to 6.50

In Chicago, quotations are lower than a month ago. There seems to be scarcely anything doing. Stocks are accumulating, and the railroads wish to turn their scrap into money, even at prevailing low prices. The following quotations are current for scrap in Chicago:

	Per Gross Ton
Heavy-melting steel scrap	$9.25 to $9.50
	Per Net Ton
No. 1 railroad wrought	$8.50 to $9.00
No. 2 railroad wrought	8.00 to 8.50
No. 1 cast scrap	9.00 to 9.25
Pipes and flues	6.75 to 7.25
Agricultural malleable	6.25 to 6.75
Railroad malleable	7.75 to 8.25

In Pittsburgh the only exception to the general downward revision is an advance of 25c. per ton in rerolling rails. There is very little inquiry in that market, particularly in the steel mills.

	Per Gross Ton
Heavy-melting steel scrap	$11.75 to $12.00
Rerolling rails	12.00 to 12.50
No. 1 foundry cast	11.75 to 12.00
Old car wheels	11.00 to 11.50
Machine shop turnings	7.75 to 8.00
Railroad malleable	9.75 to 10.00

Wire—Demands from abroad are neither so heavy nor so insistent as a month ago. The high price of spelter is limiting the production of galvanized wire. The advance to $1.60 which was made during the month in wire nails was not held. Annealed fence-wire sells at $1.35 to $1.40, galvanized wire in some cases $2.10 to $2.20; painted barbed wire, $1.60, all f.o.b. Pittsburgh. Woven wire fencing is quoted at 72% discount for carloads, 71% off list in 1000-rod lots, and 70% for small lots f.o.b. Pittsburgh.

Coke—An order for about 20,000 tons furnace coke for the year commencing July 1 has been closed. Another interest is asking prices on 15,000 tons per month, and still another on 12,000 tons per month. Prices continue low, and for prompt shipment $1.50 to $1.60 can be done. On contracts up to July 1 the price is $1.65, and for delivery during the remainder of 1915, $1.75. Foundry coke sells at $2 to $2.25 per lb., $2.15 to $2.30 on contract.

Swedish (Norway) Iron—A more decided activity is reported in the demand for this material. Little difficulty has been experienced in securing supplies, still there has been a slight increase in price. In general, the consumer's price per 100 lb. is quoted at $3.75 to $4. However, very large orders can be had at $3.25 at New York. On the other side, the mills are reported to be very busy and a rumor, to the effect that Germany has placed some large war orders, is current.

REINFORCING MATERIALS

Bars, Concrete Reinforcing—Inquiries are frequent, but only a small part of these has been turned into actual orders. The prospects are excellent and it would not be surprising to some if bars were scarce later in the year. The price is steady at 1.20c., Pittsburgh.

	Cents per Pound		
Size	Mill Shipments Pittsburgh	*Warehouse Pittsburgh	Delivered from *Warehouse New York
¾-in. and larger	1.20	1.55	2.00 to 2.05
⅝-in.	1.25	1.70	2.05 to 2.10
½-in.	1.40	1.85	2.20 to 2.25
⅜-in.	1.50	1.95	2.30 to 2.35
¼-in.	1.80	2.25	2.65 to 2.70

*Bars from warehouse are cut to desired length without extra charge.

Triangle Mesh—Prices continue steady and there is a fair inquiry:

PRICE PER 100 SQ.FT.

		Plain Material		Galvanized	
Style No.	Cross Sec. Area per Ft. Width	Carload Lots	Less Than Car Lots and Over 10,000 Sq.Ft.	Carload Lots	Less Than Car Lots and Over 10,000 Sq.Ft.
†4	0.102	$1.00	$1.23	$1.12	$1.34
5	0.077	0.80	0.97	0.89	1.00
6	0.058	0.63	0.77	0.71	0.84
†7	0.041	0.49	0.60	0.55	0.66
†23	0.170	1.69	2.05	1.88	2.24
24	0.142	1.46	1.77	1.62	1.93
25	0.124	1.29	1.57	1.43	1.71
†26	0.110	1.17	1.42	1.30	1.55
†27	0.085	0.96	1.17	1.07	1.28
28	0.066	0.80	0.97	0.89	1.06
29	0.049	0.66	0.80	0.73	0.87
31	0.261	2.49	3.02	2.76	3.29
32	0.225	2.16	2.62	2.40	2.86
33	0.196	1.93	2.34	2.14	2.55
34	0.146	1.48	1.80	1.64	1.96
35	0.109	1.117	1.42	1.30	1.55
36	0.075	0.87	1.05	0.97	1.15
38	0.380	3.55	4.30	3.93	4.68
†39	0.325	3.05	3.70	3.38	4.03
40	0.283	2.68	3.25	2.97	3.54
41	0.208	2.05	2.48	2.27	2.70
42	0.151	1.55	1.88	1.72	2.05
†43	0.101	1.10	1.34	1.23	1.46

†This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 in. Standard lengths in rolls are 150, 250, 300 and 600 ft.

Copper—The continued demand by the belligerent countries for war materials has maintained the market in copper, and on the whole the position of copper remains strong. During the past month there have been occasional declines in the prevailing high prices but they have been of a temporary nature and quickly recovered. Transactions have been heavy and production has increased. Surplus stocks moreover have vanished—indicating larger demand than supply. Speculation has entered too, to such an extent that prices have been affected mostly in favor of advances. Electrolytic has sold during the month as high as 19c. although among the trade it is generally understood that orders at that price have not been numerous. The prevailing prices at the close of the month was at 18½c. for electrolytic and 22c. for ordinary grades of Lake and 23c. for special brands. More or less irregularity prevailed at London which was reflected in the local market toward the end of the month. During the first quarter of this year imports amounted to 35,000 tons against 41,700 last year, for the same period. During April imports at Atlantic ports have been 3725 tons of copper, 1515 tons of Matte and 5925 tons of ore. Exports during April amounted to 15,473 tons, 4431 being exported during the last week. Prices are expected to be well maintained during the life of the war as the market absorbs production as fast as it can be increased. Moreover German interests have bought copper for shipment immediately after the end of the war.

Tin—The arrival of several large cargoes of tin during the past two weeks has relieved the stringency that existed a month ago in the tin trade. Prices have declined appreciably and dealers are able to fulfill contracts without fear of a shortage of stocks. April arrivals at ports in the United States were 4310 tons and deliveries into consumption were reported at 3200 tons of which 2100 tons were delivered from Atlantic ports and 1100 tons from Pacific ports. Stocks in warehouse and landing April 30 were 3041 tons. Cargoes reported afloat for the United States ports amounted to 2200 tons. Spot tin was held at 39½c. in the open market, with futures quoted at lower prices July being sold at 35½ and August at 35c. The decline since the first of April amounted to about 9c.

Lead—Prices for lead have remained steady with a fair demand. Good merchantable brands are quoted on call New York spot, 4.20c.; East St. Louis, 4.15c., in lots of not less than 50,000 lb.

Spelter—The market during the past month has been erratic with a marked tendency upward although it was more or less nominal. Transactions were not large but shipments abroad were responsible for some reduction in stocks. Spot was quoted at New York at 14½c. and at East St. Louis 14c. These prices are about 7c. per lb. higher than one year ago.

Old Metals—Selling prices of old metals are as follows:

	Cents per Lb.
Copper, heavy and crucible	16.00 to 16.50
Copper, heavy and wire	15.25 to 15.50
Copper, light and bottoms	13.25 to 13.50
Heavy machine composition	12.50 to 13.00
Brass, heavy	10.25 to 10.50
Brass, light	8.00 to 8.25
Clean brass turnings	10.00 to 10.25
Composition turnings	10.75 to 11.00
Lead, heavy	3.80
Lead, tea	3.50
Zinc, scrap	8.00

Miscellaneous Metals—The prices of various metals from jobbers' warehouse, New York, are as follows:

	Per Pound
Brass tubes, iron-pipe sizes:	
⅛ in.	25.00
¾ in. to 3 in.	24.00
3½ in	24.00
4 in.	25.00
Brass rods	20.25
Brass sheets	20.75
Solder	29.00
Copper tubes	25.00
Zinc sheets	15.00 to 15.25
Copper sheets	23.00
Pig tin (five-ton lots, cash)	45.00
Bismuth	$3.75 to $4.00

CLAY PRODUCTS

Sewer Pipe—Indications of a general improvement in the market have been visible. Inquiries resulting in fair sized orders come from the arrival of increased activities in the construction field. On 3-in. to 24-in. sizes, the discount has slightly increased, being 80% off list; on other sizes the discounts remain unchanged as follows: 27 and 30 in., 70%; 30 and 36 in., 65%. At these discounts, prices are as follows:

PRICE OF SEWER PIPE PER FOOT

Size		Size	
3-in.	$0.05	18-in.	$0.33
4-in.	0.05	20-in.	0.45
5-in.	0.08	22-in.	0.60
6-in.	0.08	24-in.	0.65
8-in.	0.11	27-in.	1.35
10-in.	0.16	30-in.	1.65
12-in.	0.20	33-in.	2.20
15-in.	0.27	36-in.	2.45

Flue Lining—Only a slight improvement has been noticed during the past month, and discounts remain unchanged at 80% off list. At this rate prices are as follows:

FLUE LINING PRICE PER FOOT

Size	Weight in Lb.	Price per Ft.	Size	Weight in Lb.	Price per Ft.
4½x8½-in.	14	$0.07	8½x18-in.	45	$0.18
4½x13-in.	20	0.09	13x13-in.	45	0.17
7½x7½-in.	15	0.08	13x18-in.	57	0.24
8½x8½-in.	18	0.09	18x18-in.	75	0.40
8½x13-in.	28	0.13			

MISCELLANEOUS

Railway Ties—Business is reported as being very quiet. The railroads refuse to place any orders at present, the general tendency being to reserve funds. First class standard ties, 7x9 in. by 8 ft. 6 in., have sold at 73c.; 6x8 in. by 8 ft. are quoted at 60c. These prices are f.o.b. New York.

Lumber—Wholesalers of lumber have slightly more confidence in the situation than three months ago, but the trade is undeniably dull. Hemlock shows a little improvement. On the Pacific Coast things are extremely dull, and not as much business is being booked for shipment through the Panama Canal as was expected. North Carolina pine shows some improvement, and in long-leaf yellow pine there is real betterment in the demand. Eastern spruce shows a little more activity, though prices continue low, 2x4-in. in 18- and 20-ft. lengths selling at $26; merchantable yellow pine from 8- to 12-in. at $25, while 14- and 16-in. sells at $32. Yellow pine is very dull. Mixed carloads of hemlock, New York, sell at $19.50 to $20.

STEADY INCREASE IN EASTERN BUILDING OPERATIONS

Continuing the gain of the previous months, 17 cities in the Eastern States show a gain of 23% in the estimated cost of operations from plans filed in April compared with the same month last year. In the same cities in the first four months of the year the gain was about 14%. In the South the ill-effects of low-priced cotton are wearing off, for the loss in seven cities in April was 17% and 42%. At this rate the return should soon be far more satisfactory.

Excellent returns from a few cities in the Middle West fail to bring the total for 14 cities up to that of a year ago. The loss amounted to 9% for the first four months of the year. The loss in these cities was 14% or $4,300,000.

Building returns from about 30 cities, which have not as yet been received, will be published in the next issue.

EASTERN STATES

	Month of April		First Four Months of Year	
	1915	1914	1915	1914
Bridgeport, Conn.	$1,493,413	$233,844	$2,311,149	$1,200,882
Buffalo, N. Y.	1,190,000	1,280,000	2,708,000	2,871,000
Elizabeth, N. J.	141,575	193,774	359,581	576,480
Hartford, Conn.	582,602	447,143	1,609,804	1,284,540
Hoboken, N. J.	57,600	105,273	431,790	359,122
Jersey City, N. J.	694,000	262,171	1,663,870	1,152,716
Newark, N. J.	949,846	754,142	2,888,337	2,676,529
New Bedford, Mass.	437,520	392,150	1,193,782	1,336,449
New Haven, Conn.	465,320	249,485	2,097,800	1,230,939
New York, N. Y.				
Bronx	2,917,300	1,795,975	10,089,475	5,947,130
Brooklyn	4,808,365	4,896,150	11,636,665	13,849,400
Manhattan	5,834,740	4,371,000	22,781,765	15,817,490
Philadelphia, Penn.	3,449,900	3,075,905	12,323,700	11,297,825
Pittsburgh, Penn.	974,283	1,158,225	2,055,385	5,298,446
Reading, Penn.	111,375	87,200	383,900	768,975
Rochester, N. Y.	1,159,257	1,156,109	2,786,581	2,658,416
Scranton, Penn.	118,952	157,383	316,696	372,845
Springfield, Mass.	365,475	450,460	1,884,833	1,404,713
Utica, N. Y.	573,365	277,005	729,795	377,390
Totals	$26,324,888	$21,337,394	$80,252,908	$70,480,287

CENTRAL STATES

	Month of April		First Four Months of Year	
	1915	1914	1915	1914
Canton, Ohio	$217,520	$107,100	$477,495	$292,120
Cincinnati, Ohio	1,317,485	964,425	2,624,604	2,725,660
Des Moines, Iowa	225,223	181,178	461,983	621,628
Grand Rapids, Mich.	298,394	135,934	743,195	1,798,522
Indianapolis, Ind.	776,511	1,036,716	2,240,517	2,594,380
Kansas City, Kan.	147,560	113,995	403,685	276,121
Kansas City, Mo.	1,125,170	735,665	3,257,975	4,190,260
Milwaukee, Wis.	1,173,693	1,353,040	2,729,319	2,969,204
Oak Park, Ill.	219,560	347,660	744,680	771,615
Omaha, Neb.	389,420	593,035	1,171,455	1,315,815
St. Louis, Mo.	986,719	1,734,412	4,051,332	4,946,651
St. Paul, Minn.	829,914	1,204,759	3,148,850	4,434,224
Toledo, Ohio	959,042	772,144	2,714,204	2,170,366
Youngstown, Ohio	219,505	470,035	579,010	773,437
Totals	$8,885,716	$9,750,698	$25,348,304	$29,980,003

SOUTHERN STATES

	Month of April		First Four Months of Year	
	1915	1914	1915	1914
Chattanooga, Tenn.	$44,295	$219,490	$147,412	$494,995
Ft. Worth, Tex.	81,495	214,050	343,755	829,648
Memphis, Tenn.	438,355	420,080	987,828	1,427,225
Norfolk, Va.	163,218	312,630	636,506	977,075
Richmond, Va.	370,114	557,131	1,073,964	1,557,250
Tampa, Fla.	90,440	96,290	289,690	445,235
Washington, D. C.	1,029,020	851,309	3,105,007	3,651,088
Totals	$2,216,937	$2,670,980	$6,584,162	$9,382,516

RAILWAYS

New Jersey—Philadelphia & Reading Ry.—In accordance with a decision of the Board of Public Utility Commissioners, this company is preparing plans for the construction of a tunnel at Bryn Mawr Ave., Trenton, N. J. Estimated cost, $30,000. C. Dillenbeck, Philadelphia, Penn., is Ch. Engr.

Pennsylvania—Western Maryland Ry.—This company has arranged for the use of the tracks of two lines of the Baltimore & Ohio R.R., one from Rockwood, Penn., for about 20 miles into Somerset County and the other from Connellsville, Penn., to Fairmont, W. Va. In each case the company will construct several spurs to coal mines. H. R. Pratt, Baltimore, Md., is Ch. Engr.

Virginia—Mt. Airy & Eastern Ry. of Alexandria—This company has been incorporated to construct a 30-mile extension in Patrick County of the line from Mt. Airy, N. C., to Kibler, Va. Joseph C. Sheehy, Washington, D. C., is Pres.

Virginia—Richmond & Eastern Ry.—This company has been incorporated to construct a railway from Richmond to Ft. Lee, about five miles. The incorporators are: John C. Robertson, J. Taylor Robertson, K. T. Crawley, Haskins, Hobson and C. B. Anderson, all of Richmond.

West Virginia—Kanawha, Glen Jean & Eastern R.R.—Plans are being considered by this company for the construction of a two-mile extension to its line from Glen Jean, W. Va. Thomas Nichol, Glen Jean, is Gen. Supt. and Ch. Engr.

Georgia—Central of Georgia Ry.—This company plans to start work soon on the extension of its line from Rossville to Alton Park, Ga. C. K. Lawrence, Savannah, is Ch. Engr.

Georgia—Midland Ry.—This company is being organized for the purpose of constructing a railway from Savannah to Milledgeville, Ga., about 150 miles. The incorporators are W. M. Exley, J. D. Johnson, W. H. Webb, L. M. Mikel, O. D. Kessler, K. I. Helmey, C. M. Leitner and C. A. Johnson, all of Springfield, Ga.

Alabama—Alabama, Tennessee & Northern Ry.—Plans are being considered by this company for the extension of its line from Reform, Ala., to a connection with the Illinois Central R.R., about 65 miles. William Toxey, Mobile, Ala., is Ch. Engr.

Tennessee—Chesapeake & Ohio Ry.—Plans have been prepared by this company for the construction of a railway from Greenville to Kingsport, Tenn. F. I. Cabell, Richmond, Va., is Ch. Engr.

Kentucky—Louisville & Nashville R.R.—The construction of a 23-mile extension from McRoberts to Elk Horn, Ky., is contemplated by this company. W. H. Courtenay, Louisville, Ky., is Ch. Engr.

Ohio—Baltimore & Ohio R.R. Co.—This company has purchased 920 ft. of frontage along its right of way in Cincinnati, Ohio, for the purpose of establishing yards and trackage. A. M. Kinsman, Cincinnati, is Engr. Const.

North Dakota—Great Northern Ry.—According to press reports this company will soon start work on the construction of its proposed line from New Rockford, N. D. A. H. Hoagland, St. Paul, Minn., is Ch. Engr.

Wyoming—Northern Wyoming R.R.—This company has been incorporated to construct a railway to connect Sheridan, Big Horn and Beaver Hills. The incorporators are: George L. Forsyth, Olaf Nelson, D. P. B. Marshell, H. Batchelor and E. Forsyth. Noted Apr. 1.

Washington—J. E. Morrison, Bellingham, Wash., has appeared before the Chamber of Commerce of that city, asking that the sum of $250,000 be pledged to cover right-of-way expense in connection with the proposed transcontinental line from Hudson Bay to Puget Sound.

Oregon—The city of Roseburg will hold a special election on June 3 at which the question of a $300,000 bond issue will be submitted to the voters, the proceeds to be used in constructing a railroad from the city to the boundary of the national forest, a distance of 30 miles. Noted Apr. 29.

California—Atchison, Topeka & Santa Fé Ry.—An expenditure of $75,000 is contemplated by this company for track improvement near Corona, Calif. F. M. Bisbee, Amarillo, Tex., is Ch. Engr. Western Lines.

✚**British Columbia**—Canadian Pacific Ry.—Foley Bros., Vancouver, general contractor for the new tunnel being built near Glacier, B. C., for this company, has awarded to the BATES & ROGERS CONSTRUCTION CO., Vancouver, the contract for lining the tunnel, at an approximate cost of $300,000. The tunnel will be five miles long, and will cost approximately $5,000,000.

ELECTRIC RAILWAYS

Methuen, Mass.—The Bay State St. Ry. Co. has applied to the City Council for a franchise to extend and improve its lines in Methuen. R. S. Goff, Boston, is Vice-Pres. and Gen. Mgr.

Mayville, N. Y.—The Columbus Mayville Ry. Co. has applied to the Council for a franchise to construct an electric railway in Mayville. C. P. Northrup, Corry, Penn., is Pres.

White Plains, N. Y.—According to press reports the Westchester & Northern Ry. Co. will soon start work on the construction of an electric railway from the terminus of the New York, Westchester & Boston R.R. to Danbury, Conn.

Grove City, Penn.—The Butler & Grove City Ry. Co. plans to start work soon on the construction of an electric railway from Grove City to Slippery Rock. James A. Jolliffe, Grove City, is Mgr. Noted June 25.

Hershey, Penn.—Plans are being made by the Hershey Transit Co. to start work about May 15 on the construction of an extension from Hershey to Jonestown. J. B. Lightheiser, Hershey, is Gen. Mgr.

Petersburg, Va.—The Petersburg & Appomattox Ry. Co., recently granted a franchise to construct an electric railway from Petersburg to City Point, about 10 miles, plans to start work within two months. W. W. La Prade is Ch. Engr. Noted Apr. 8 and 29.

✚**Jacksonville, Fla.**—The Commissioners of the Port have awarded the contract to A. J. MILLS, Jacksonville, to construct a railway to connect the municipal docks Noted Dec. 3.

Cleveland, Ohio—The Cleveland Electric Ry. Co. is preparing to extend its Payne Ave. line. George L. Radcliffe, Cleveland, is Gen. Mgr. Noted Apr. 8.

Battle Creek, Mich.—The Battle Creek, Coldwater & Southern Ry. Co. will soon award contracts for the construction of an electric railway to connect Battle Creek, Coldwater and Girard. T. A. Hilton, Coldwater, is Pres.

Kankakee, Ill.—The Kankakee-LaFayette Electric Ry. Co. is preparing to start work soon on the construction of an electric railway from Kankakee to LaFayette. O. L. Brown is Gen. Mgr. Noted Feb. 4.

La Salle, Ill.—The La Salle Ry. Co. is making surveys for the construction of an electric railway from Oglesby and La Salle. B. M. McDonald, Chicago, is Secy.

Halstead, Kan.—The Arkansas Valley Interurban Ry. Co. plans to start work soon on the extension of its line from Halstead to Hutchinson, about 22 miles. Charles D. Bell, Wichita, is Supt. Noted Feb. 11 and Apr. 29.

Columbus, Ark.—Preliminary arrangements are being made by Rufus S. Stout, Pine Bluff, for the construction of an electric railway from Columbus to Washington, Ark.

Ft. Smith, Ark.—The Ft. Smith Light & Traction Co. contemplates an expenditure of $60,000 for the reconstruction of several of its railway lines. R. L. Orton, Ft. Smith, is Ch. Engr.

Pocatello, Utah—The Council has granted a franchise to J. R. Munn, Salt Lake City, for the construction of an electric railway in Pocatello.

Phoenix, Ariz.—The Phoenix Ry. Co. is considering plans for the construction of a loop to connect Monroe, Fourth, Washington, Roosevelt and First St. Samuel H. Mitchell, Phoenix, is Gen. Mgr. and Pur. Agt.

Linnton, Ore.—Preliminary arrangements are being made by O. M. Clark, Richard Shepard and J. B. Holbrook for the construction of an electric railway in Linnton. This is part of a proposed line to connect Linnton and Portland.

Salem, Ore.—The Willamette Valley Southern Ry. Co. contemplates the construction of an extension from Mt. Angel to Salem. F. W. Hild, Portland, is Gen. Mgr.

Niagara Falls, Ont.—The Department of Public Works is considering plans for the construction of a sight-seeing electric railway across Whirlpool Rapids.

Toronto, Ont.—The Toronto Ry. Co. is preparing plans for the construction of an electric railway on College St. from Bathurst St., westward. F. G. Clark, Toronto, is Ch. Engr.

Brandon, Man.—The Brandon Municipal Ry. Co. will lay new tracks on 13th, 14th and College St. in Brandon. R. E. Speakman is Engr.

Transcona, Man.—W. J. Christie, Union Bank Bldg., Winnipeg, is interested in the construction of an electric railway from Oxford and Regent St. to the western limits of the town, to connect with the Winnipeg St. Ry.

LIGHT, HEAT AND POWER

Carmel, Maine—It is reported that the Black Stream Electric Co., recently organized, is making plans to establish an electric plant to supply energy to the towns of Carmel, Hermon, Levant, and possibly Etna, all in Penobscot County. It will cost about $25,000, and will probably be located on the Sowadabscook stream, about one mile from Carmel.

Manchester, N. H.—The Manchester Traction, Light & Power Co. has applied to the State Public Service Commission for authority to issue $1,000,000 in bonds, of which a part of the proceeds will be used to make additions and improvements to its properties during the year. J. Brodie Smith, Manchester, is Vice-Pres. and Gen. Mgr.

New Haven, Conn.—It is reported that the Winchester Repeating Arms Co. plans to build a $22,000 gas plant, a $15,000 tank storage building, a central heating plant to cost $48,000 and a $30,000 scrap shed.

New Haven, Conn.—The H. B. Ives Co., Artizan St., is having plans prepared for a one-story, brick and steel, 24x44-ft. boiler house, and a 125-ft. brick stack. R. W. Foote is Arch.

✚**New York, N. Y.**—(Borough of Bronx)—Bids were received Apr. 21 by the Department of Education for electrical equipment in the addition to Public School 12, Benson and Frisby Ave., Westchester, Borough of the Bronx, from: New York Construction Co., $4444; T. FREDERICK JACKSON, 99 John St., New York, $4154 (awarded contract); Jandous Electric Co., $4311; Commercial Construction Co., $4473.

Ebensburg, Penn.—The Ebensburg Light, Heat & Power Co. is preparing to install one 800-hp. Blake & Knowles open feed-water heater and one Worthington duplex feed pump. E. F. Craver is Gen. Mgr. and Cont. Agt.

Pottsville, Penn.—The Eastern Pennsylvania Light, Heat & Power Co. contemplates increasing the output of its plant at Palo Alto, a suburb of Pottsville, by 2000 hp. The estimated cost of the work is $200,000. W. B. Rockwell, Pottsville, is Mgr.

Shippensburg, Penn.—The Shippensburg Gas & Electric Co. is installing a hydro-electric plant, which will be capable of generating 450 kw. C. W. Harman is Mgr. and Supt.

St. Michaels, M.—The Town Commissioners have granted a 20-year franchis to the Talbot Mfg. Co., St. Michaels, to supply the town with electricity for lighting and power purposes. The company has a private electrical system for its packing plant, and will install additional boilers and generators.

Clifton Forge, Va.—It is reported that the Virginia Western Electric Co. will build, within the next few months, a hydro-electric plant and five new substations. It will also construct 42 miles of 44,000-volt, three-phase transmission line, and purchase water-wheel governors, generators, etc. A. C. Ford is Mgr. and Supt.

Lynchburg, Va.—Press reports state that the Lynchburg Traction & Light Co. has appropriated $85,000 for rebuilding its transmission lines. It also contemplates enlarging the Blackwater St. station and the gas plant. J. W. Hancock is Gen. Mgr.

✚**Branchland, W. Va.**—It is reported that the Huntington Development & Gas Co. has awarded the contract for the construction of a gas compressor plant near Branchland to the MILLER SUPPLY CO. The estimated cost is $100,000.

Parkersburg, W. Va.—The Parkersburg, Marietta & Interurban R.R. Co. has chosen the site for the construction of its new generating station in Parkersburg to replace the present power house. The building will be 135x150 ft., and the complete plant is estimated to cost about $500,000. Sanderson & Porter, 52 William St., New York, N. Y., is Engr.-in-Charge. Noted Feb. 25.

Baton Rouge, La.—Press reports state that the Baton Rouge Electric Co. will build a new power plant to cost about $200,000. Donald Stewart, Baton Rouge, is Mgr.

New Orleans, La.—It is reported that the New Orleans Ry. & Light Co. will spend about $125,000 in enlarging its power plant on Market St.

Paducah, Ky.—The Kentucky-Southwestern Electric Ry., Light & Power Co. will build a new power house in connection with its traction line from Paducah to Murray. H. C. Rhodes, Paducah, is Pres. F. M. Smith is Gen. Mgr.

✚**Cleveland, Ohio**—The Diebolt Brewing Co., Pittsburg Ave., has awarded the contract for the construction of a new boiler house to the GEORGE B. McMILLAN CO., 1794 East 55th St., Cleveland. It will cost about $15,000. Louis Lehle, 64 West Randolph St., Chicago, Ill., is Arch.

Hilliards, Ohio—The Hilliards Light & Power Co., recently organized with a capital stock of $10,000, will install a plant to furnish the town with electricity. LeRoy Bobyns, T. C. Latham and associates are interested.

Lisbon, Ohio—The Ohio Gas & Electric Co., lately organized, plans to install an electric-light plant in Lisbon. Service is now furnished to the town by the New Lisbon Gas Co., which purchases energy from the Youngstown & Ohio River R.R. Co. Joseph S. Grayden is interested in the Ohio Gas & Electric Co.

Oxford, Ohio—(Official)—Bids will be received until noon, May 29, by the Board of Trustees of Miami University for alterations and additions to the power plant of the University. The work includes boiler- and engine-room extensions to power building, boiler, feed-water heater, vacuum heating pumps, boiler-feed pumps, power equipment changes and additions. W. L. Tobey, Hamilton, Ohio, is Chn. of Bldg. Com. of the Bd. of Trustees of Miami University. Walter G. Franz, Cincinnati, is Consult. Engr. Noted Apr. 22.

Painesville, Ohio—The City Council has rejected the terms of the Cleveland, Painesville & Eastern R.R. Co., Willoughby, to supply electricity to the city, and has authorized an issue of $35,000 in bonds, the proceeds of which will be used to make improvements and buy new equipment for the municipal electric-light plant.

✚**Toledo, Ohio**—The Board of Education has awarded contracts in connection with the construction of the new Nebraska School as follows: Electrical work, R. H. WINTERS CO., Toledo, $2197; plumbing, LARSEN & WOOD, Toledo, $15,003; heating and ventilating, ROBERT RAITZ & CO., Toledo, $19,775; temperature regulation, JOHNSON SERVICE CO., Milwaukee, Wis., $3540.

Trenton, Ohio—(Official)—Bids will be received until noon, May 20, by J. H. Kerr, Village Clk., for lighting the streets, alleys and public places of the village for a period of 10 years.

Ann Arbor, Mich.—The City Engineer has submitted tentative plans to the City Council for the installation of a municipal electric plant for lighting the streets and public buildings of the city. The estimated cost is $55,585. Manly Osgood is City Engr.

Ute, Iowa—It is reported that a company is being organized to construct and operate an electric-lighting system in Ute. The estimated cost is $10,000.

Stillwater, Minn.—The Lighting Committee of the City Council has engaged Earle D. Jackson, Capital Bank Bldg., St. Paul, to prepare plans for a municipal electric-light plant, including an ornamental lighting system, or a lighting system without ornamental lamps. Noted Dec. 24.

Hays, Kan.—The City Council is considering the installation of a municipal electric-light plant. The estimated cost is $27,000.

Brock, Neb.—The citizens have voted a bond issue for the purpose of constructing a transmission line from Auburn, 11 miles distant, to supply the town with electricity from the plant of the Auburn Mutual Lighting & Power Co.

Victoria, Tex.—At an election held Apr. 26, the citizens voted in favor of issuing $40,000 in bonds, the proceeds of which will be used for the installation of a municipal electric-light plant. Noted Apr. 1.

Ada, Okla.—The Ada Oil & Gas Co. has applied to the City Council for a franchise to install a natural gas distributing system in the town.

Duchesne, Utah—An electric-light plant to cost about $10,000 will be installed soon in Duchesne. M. Pope, R. W. Kroupa, Duchesne, and John Glenn, Vernal, Utah, are interested.

Elsinore, Calif.—It is reported that D. W. Campbell is preparing to install a gas plant in Elsinore.

✚**Los Angeles, Calif.**—The Los Angeles Gas & Electric Corporation has awarded a contract for two boilers to the BABCOCK & WILCOX CO., 85 Liberty St., New York, N. Y., at $15,978.

BRIDGES

Lawrence, Mass.—(Official)—Bids will be received until 9:30 a.m., May 10, by the Commissioners of Essex County, Salem, for rebuilding the bridge over the Shawsheen River at Merrimac St., Lawrence. It will be a reinforced-concrete structure, 50 ft. long and 60 ft. wide. Moody Kimball, Salem, is Chn. of Comrs.

✚**Lee, Mass.**—The Town Council has awarded the contract for the construction of a concrete bridge on Pleasant St. to M. L. CARMARCO, Lee, at approximately $10,000.

Lowell, Mass.—(Official)—We are advised by Stephen Kearney, City Engr., that the new bridge at Pawtucket Falls will be built entirely by city forces. The estimated cost is $80,000, exclusive of land damages. Noted Apr. 29.

Woonsocket, R. I.—The City Council has appropriated $60,000 for building two concrete bridges on Hamlet Ave., and straightening the approaches to them. The Council has also appropriated $20,000 for the construction of a new bridge at Fairmount St. F. A. Mills is City Engr. Noted Dec. 24.

Albany, N. Y.—The State Assembly has passed bills appropriating $100,000 for the construction of a bridge over the Mohawk River between Albany and Saratoga Counties at Dunsbach Ferry; $50,000 for a bridge at Minetto over the Oswego River and the Barge Canal, and $18,000 for a bridge at Stillwater over Twitchell Creek.

Jersey City, N. J.—It is reported that the Central R.R. of New Jersey contemplates building a new bridge over Jackson Ave., Jersey City. J. J. Yates, New York, N. Y., is Bridge Engr.

✚**Gettysburg, Penn.**—(Official) — The Commissioners of Adams and York Counties have awarded the contract for the construction of a reinforced-concrete arch over Beaver Creek between Adams and York Counties, to A. G. & M. WAGMAN, Dallastown, Penn. Seven other bids were received. Noted Apr. 8.

★✚**Philadelphia, Penn.**—Bids were received Apr. 29 by the Department of Public Works for the construction of a reinforced-concrete arch, 60 ft. long and 30 ft. wide, on the line of 58th St. over the Philadelphia & Baltimore Central R.R., (A) lump sum, (B) aggregate bid including extra items, from: M. & J. B. McHUGH, (A) $11,900, (B) $12,235 (awarded contract); Cantrell Construction Co., (A) $11,881; (B) $12,506; Charles P. Bower, (A) $14,300, (B) $14,713; William H. Johnson, Jr., (A) $14,495, (B) $14,797; T. F. Reilly, (A) $14,500, (B) $14,839; F. J. Boas, (A) $14,700, (B) $15,030; Carl R. Camp, (A) $15,360, (B) $15,754; Richard Walsh & Sons, Inc., (A) $15,695, (B) $15,979; Brann & Stuart Co., (A) $15,750, (B) $16,190; Pugh & Hubbard Co., (A) $16,549; (B) $17,020; Peoples Bros., Inc., (A) $16,774, (B) $17,214; Brown King Construction Co., (A) $16,948, (B) $17,339. Noted Apr. 22.

Reading, Penn.—(Official)—Bids will be received until 10 a.m., May 14, by D. K. Hoch, Controller of Berks County, for the construction of a reinforced-concrete bridge over the Schuylkill River between the Borough of West Leesport and Ontelaunee Township, Berks County. Bids will also be received at the same time for furnishing from 1800 to 2500 bbl. of portland cement for the Leesport Bridge. Noted Dec. 17, Jan. 7 and Feb. 25.

✚**Reading, Penn.**—(Official)—The Commissioners of Berks County have awarded the contract for the construction of the Fleetwood Bridge across Willow Creek in Richmond Township, to the READING CONTRACTING CO., Reading. Noted Apr. 22.

Washington, Penn.—Bids will be received until noon, May 11, by the Board of Commissioners of Washington County for the construction of small bridges and culverts in the county. T. J. Underwood is County Controller. Chaney & Armstrong is Engr.-in-Charge.

York, Penn.—Bids will be received until May 13 by the Commissioners of York County and the County Controller, for the construction of four reinforced-concrete bridges and one stone arch in the county.

Easton, Md.—(Official)—We are advised by Frank W. Seth, County Engr. of Talbot County, that all bids received Apr. 13 for the construction of the Leeds Creek Bridge on the Tunis Mills Rd., were rejected. Noted Apr. 8 and 29.

✚**Bedford City, Va.**—(Official)—The Commissioners of Bedford County have awarded the contract for the construction of a 209-ft. bridge over Elk Creek to the CAMDEN IRON WORKS, Roanoke, Va. Noted Feb. 4.

✚**Durham, N. C.**—(Official)—The Board of Commissioners of Durham County has awarded the contract for the construction of four steel bridges with concrete substructures to the CAMDEN IRON WORKS, Roanoke, Va., at $10,904 for the steel, and $5.80 and $5.90 per cu.yd. for the concrete. P. C. Crompton is County Audr. Noted Mar. 25.

Birmingham, Ala.—The Board of City Commissioners has instructed the City Engineer to prepare an ordinance providing for the construction of a reinforced-concrete viaduct over the railway tracks on 21st St. between First Ave. and Ave. A. The structure will be about 1000 ft. long. Julian Kendrick is City. Engr.

Bryan, Ohio—It is reported that the Board of Commissioners of Williams County will shortly advertise for bids for the construction of five steel bridges, ranging from 50 to 144 ft. in length. C. R. Lowe is Clk. of Comrs.

Cambridge, Ohio—(Official)—The Board of Commissioners of Guernsey County has rejected all bids received Apr. 13 for building abutments for the Dewey Ave. Bridge over Wills Creek in the City of Cambridge. The matter will not be considered again before next fall, and possibly not until the spring of 1916. It is possible that the Baltimore & Ohio R.R. Co., in conjunction with the city, will build a viaduct to replace the present bridge at this point. T. C. White is County Audr. Noted Mar. 25.

✚**Chillicothe, Ohio**—The Board of Commissioners of Ross County has awarded contracts for the construction of a 243-ft. bridge at Frankfort to OATHER M. JUNK, Chillicothe, at $8298 for the substructure, and E. M. SCULLY, Columbus, at $14,995 for the superstructure. The contract for the construction of the Crooked Bridge near Bainbridge was awarded by the Commissioners to the CAPITOL CONSTRUCTION CO., Columbus, at $12,175.

Cleveland, Ohio—Bids will be received until May 19 by the Board of Commissioners of Cuyahoga County for county bridge work, Report No. 3510. W. A. Stinchcomb is County Surv. E. G. Krause is Clk. of Comrs.

✚**Coshocton, Ohio**—The Board of Commissioners of Coshocton County has awarded contracts for repairing the Miskimen and Fresno Bridges to GEORGE J. BOCK & SON, Coshocton, $3265 and $3510 respectively.

Hamilton, Ohio—It is reported that the low bidder for the construction of a steel bridge at Woodsdale was the Penn Bridge Co., Beaver Falls, Penn., at $19,540 and $18,720 for the superstructure, (alternate plans), and $20,000 and $19,470 for the substructure. The lowest bid for a concrete bridge was that of the Cleary-White Construction Co., Chicago, Ill. Bids were received Apr. 17. Noted July 23, Aug. 13, Dec. 10, 1914; Feb. 25, Mar. 11 and Apr. 1, 1915.

✚**Hamilton, Ohio**—The Board of County Commissioners has awarded the contract for the construction of the Woodsdale Bridge to the CLEARY-WHITE CONSTRUCTION CO., 17 North La Salle St., Chicago, at $76,289. It will be of concrete, six 100-ft. spans.

Logan, Ohio—(Official)—Bids will be received until 1 p.m., May 14, by the Board of Commissioners of Hocking County for the superstructure of a bridge across Rush Creek in Marion Township. George H. Shaw is Chn. of Comrs.

✚**Tiffin, Ohio**—(Official)—The Board of Commissioners of Seneca County has awarded contracts for the construction of Bridge No. 230 in Empire Township, and Bridge No. 96 in Bloom Township, to the BURK CONSTRUCTION CO., Newcastle, Ind., at $5586 and $3403, respectively. J. E. Hershberger is County Engr. Noted Apr. 8.

Auburn, Ind.—Plans are being prepared by Charles Wagoner, County Engr. of De Kalb County, for two steel bridges the Farrington Bridge, 60 ft. long, and the Grube Bridge, 12[illegible] ft. long. A. W. Madden is County Audr.

Mt. Vernon, Ind.—It is reported that the Commissioners of Posey County will advertise about July 1 for the construction of several steel and concrete bridges. T. J. Johnson is County Surv. J. R. Haines is Audr.

Dixon, Ill.—Press reports state that the Illinois Central R.R. will raze the present bridge over the Rock River at Dixon, and will replace it with a new structure. M. Johnson, Chicago, is Engr. of Bridges and Bldgs.

✚**Lincoln, Ill.**—The Streets and Alleys Committee of the City Council has awarded the contract for the construction of a reinforced-concrete bridge over Brainerd's Branch on Union St. to H. K. RHOADS at $11,067.

Atlantic, Iowa—The Board of Supervisors of Cass County has passed a resolution of necessity for the construction of eight new bridges and culverts in the county. C. E. Keingel is County Audr.

Council Bluffs, Iowa—(Official)—Bids will be received until 2 p.m., May 7, by the Board of Supervisors of Pottawattamie County for the construction of five steel bridges, ranging from 40 to 100 ft. in length. J. D. Hannan is County Audr.

Council Bluffs, Iowa—The City Council contemplates the construction of a new bridge across Indian Creek. The bridge will be 26 ft. wide, and the estimated cost is $5000. E. E. Spetman is City Engr.

Forest City, Iowa—(Official)—Bids will be received until 11 a.m., May 11, by C. K. Nelson, Audr. of Winnebago County, for the construction of two reinforced-concrete bridges. The first is estimated to cost $3828, and the other $2460. O. N. Gjellefald is Engr.

Idagrove, Iowa—The Board of Supervisors of Ida County will shortly receive bids for the construction of 13 new county bridges. Plans were prepared by the State Highway Commission, Des Moines. Thomas H. MacDonald is State Engr.

✚**Manchester, Iowa**—(Official)—The Board of Supervisors of Delaware County has awarded the contract for the construction of a number of county bridges to the MARSH ENGINEERING CO., Des Moines, at $8875. Bids were received Apr. 24. C. H. Bunker is County Audr. Noted Apr. 22.

Red Oak, Iowa—Bids will be received until 1 p.m., May 30, by the County Auditor of Montgomery County for the construction of bridges and culverts in the county.

✚**Austin, Minn.**—(Official)—The Commissioners of Mower County have awarded contracts for the construction of 14 reinforced-concrete bridges as follows: H. F. GARBISH, Austin, $334 for seven bridges; IOWA BRIDGE CO., Des Moines, Iowa, $7099 for five bridges; WILLIAM O'SHEA & SONS, Minneapolis, $2617 for two bridges. O. J. Simmons is County Audr. Noted Apr. 22.

Duluth, Minn.—(Official)—We are advised by D. A. Reed, Mgr. of the Water and Light Dept., that plans are not yet completed for a bridge over Tischer's Creek at First St., and bids have not been advertised. The bridge will be a reinforced-concrete arch of 100 ft., carrying 36-in. water pipes, with sidewalks over them. Noted Apr. 22.

✚**Moorhead, Minn.**—(Official)—The Board of Commissioners of Clay County received bids Apr. 27 for the construction of State Bridges (A) No. 1633, and (B) No. 1657, from: Great Northern Bridge Co., Minneapolis, (A) $9398, (B) $2880; Elkhart Bridge & Iron Co., Elkhart, Ind., (A) $9520, (B) $2772; Joliet Bridge & Iron Co., Joliet, Ill., (A) $10,200, (B) $2588; ILLINOIS STEEL BRIDGE CO., St. Paul, (A) $8953 (awarded contract), (B) $2725; Continental Bridge Co., Chicago, Ill., (A) $10,500, (B) $2990; Worden-Allen Co., Milwaukee, Wis., (A) $9682, (B) $3344; Wausau Iron Works, Wausau, Wis., (A) $9889, (B) $2519; Fargo Bridge & Iron Co., Fargo, N. D., (A) $9800, (B) $2660; JARDINE & ANDERSON, Fargo, N. D., (A) $9700, (B) $2599 (awarded contract); Dinsmore & Lewis, Hawley, (B) $3090. A. O. Houglum is County Audr. Noted Apr. 15.

Leavenworth, Kan.—Bids will be received until May 11 by Fred Metschan, City Clk., for the construction of two culverts over Three Mile Creek at Second and Third St. Harry A. Perkins is City Engr.

Potter, Kan.—It is reported that the Commissioners of Atchison County, Atchison, will soon advertise for bids for the construction of a reinforced-concrete bridge at Potter. C. M. Voelker, Atchison, is County Clk. R. K. McCrary is County Engr.

Lisbon, N. D.—Bids will be received until noon, May 19, by Charles E. Best, Audr. of Ransom County, for the construction of one 60-ft. bridge and one 80-ft. bridge. Both will have reinforced-concrete floors, abutments and wings.

St. Joseph, Mo.—Bids will be received until 11 a.m., May 10, by the Commissioners of Buchanan County for bridge work and repairs. J. C. Hunt is Clk. of Comrs. R. L. Cargill is County Engr.

✚**Rockport, Mo.**—The Board of Commissioners of Atchison County has awarded the contract for the construction of three steel bridges to the NEBRASKA CONSTRUCTION CO., Lincoln, Neb., at $4500. One bridge will be 70 ft. long, and the others 90 ft. each. J. A. Krusor is County Highway Engr. Noted Mar. 25.

Canadian, Tex.—The taxpayers of Hemphill County have voted in favor of issuing $75,000 in bonds, for the purpose of building a bridge across the Canadian River at this point.

Houston, Tex.—Bids will be received until 10 a.m., May 10, by H. L. Washburn, Audr. of Harris County, for the construction of the Kuykendahl Rd. Bridge.

✚**Pocatello, Idaho**—(Official)—The State Highway Department, Boise, has awarded contracts for the construction of seven bridges in Bannock County to the MIDLAND BRIDGE CO., Salt Lake City, Utah, and F. CRANE, Boise, at $3546 and $3966 respectively. Edward S. Smith is State Highway Engr.

Priest River, Idaho—It is reported that the Commissioners of Bonner County, Sandpoint, are having plans prepared for

the construction of a bridge across the Pend d'Oreille River at Priest River to replace the present ferry. The estimated cost is $25,000. Clyde J. Chaffins, Sandpoint, is County Surv.

Olympia, Wash.—(Official)—We are advised by W. A. Hoage, City Clk., that the bids received Apr. 19 for the construction of a bridge to replace one recently destroyed, were for a temporary structure only. Noted Apr. 15.

†Olympia, Wash.—The Board of Commissioners of Thurston County opened bids Apr. 26 for the construction of a bridge over Perry Creek as follows: COAST BRIDGE CO., Portland, Ore., $8400 (awarded contract); Charles G. Huber, Seattle, $8996; Portland Bridge & Iron Works, Portland, Ore., $9980; Weymouth Construction Co., Seattle, $10,200; March & Tweeden, Tacoma, $11,247; F. T. Pierce, Seattle, $11,730; Yelverton & Wolfe, Olympia, $11,917. Noted Mar. 18 and Apr. 15.

Seattle, Wash.—It is reported that the City Council is considering the reconstruction of the West Garfield Bridge at an estimated cost of $20,000. Arthur H. Dimock is City Engr.

Eureka, Calif.—Bids will be received until May 11 by the Board of Supervisors of Humboldt County for the construction of three bridges: One 700-ft. cable suspension bridge to cost about $45,000; a 60-ft. concrete bridge and a cable bridge, costing $9000 each. A. J. Logan is County Surv.

Los Angeles, Calif.—It is reported that the Atchison, Topeak & Santa Fé Ry. has appropriated $85,000 for the construction of two new railway bridges on the Los Angeles Division. F. M. Bisbee, Amarillo, Tex., is Ch. Engr. Western Lines.

Los Angeles, Calif.—It is reported that the Board of Supervisors of Los Angeles County has awarded the contract for the construction of a 60-ft. steel girder bridge over Coyote Creek to the SECURITY CONSTRUCTION CO., Los Angeles, at $6382, and 55c. per ft. for piling.

Meridian, Calif.—It is reported that the bridge at Meridian, owned jointly by Sutter and Colusa Counties and the Northern Electric Co., Chico, will be repaired at an estimated cost of $46,980.

WATER SUPPLY—IRRIGATION

Boston, Mass.—(Official)—Bids will be received until 1:30 p.m., May 10, by the Metropolitan Water and Sewerage Board for laying 6370 ft. of 60-in. c.-i. water mains in Newton. Dexter Brackett is Ch. Engr. of Water-Wks.

†Boston, Mass.—The contract has been awarded to E. S. BUTTERFIELD & CO., at $3 per box, for furnishing 2600 concrete gate boxes for the water department. Noted Apr. 1.

†Boston, Mass.—The contract has been awarded by the Metropolitan Water and Sewer Board to JOHN CASHMAN & SONS CO., 247 Atlantic Ave., Boston, at $46,000, for constructing a masonry tower around the steel water tower on Bellevue Hill. Noted Apr. 8 and 22.

Brookline, Mass.—Plans are being prepared by F. F. Forbes, Supt. of Water-Wks., for an 8,000,000-gal. deferritation plant for the water system. The plant will be built by day labor. Noted Dec. 17, Feb. 4 and Apr. 8.

Gardner, Mass.—The reservoir at Gardner will be reconstructed this summer at an estimated cost of $10,000.

†Newton, Mass.—(Official)—Bids were received Apr. 26 by the Metropolitan Water and Sewerage Board for laying 60-in. water pipes in various streets as follows: ANDREW M. CUSACK, Boston, at $32,369 (awarded contract); James L. Pierce Co., Boston, $32,615; Rowe Contracting Co., Boston, $33,047; Coleman Bros., Boston, $34,787; Bruno & Petitti, Boston, $34,787; John P. Cavanaugh Co., Boston, $36,762; M. Russo & Son Co., Boston, $37,103; Charles A. Kelley, Somerville, $37,522; Hugh Nawn Contracting Co., Boston, $37,960; John T. Shea, Jr., Boston, $38,290, and Moore & Co., Boston, $48,602. Noted Apr. 22.

Shrewsbury, Mass.—Bids were received Apr. 24 by the Water Commissioners for constructing a water system as follows: Hanscom Construction Co., Boston, $70,300; Frederick A. Houdette & Son, Boston, $74,500; Daniel D. Pietro, Boston, $75,000. All bids were above the appropriation. George E. Stone is Town Clk. Noted Feb. 11 and Apr. 23.

Westfield, Mass.—At a recent election the citizens voted against the question of issuing bonds, the proceeds of which was to have been used for the construction of reservoirs and sewers.

Binghamton, N. Y.—Bids will be received until May 26 by the Board of Contract and Supply for constructing standpipes for the water system. Noted Dec. 17.

Herkimer, N. Y.—Surveys are being made by R. E. Horton, Albany, for the construction of a pipe line for water supply for Herkimer. The cost is estimated at about $250,000.

Ilion, N. Y.—Bonds for $81,000 have been voted by the citizens, the proceeds of which will be used for the new water supply. Plans will be submitted to the State Conservation Commission. Noted Dec. 10.

Niagara Falls, N. Y.—According to press reports the city will spend $90,000 for the construction of water mains this year. F. S. Parkhurst is City Engr.

Trumansburg, N. Y.—The construction of a water system is under consideration by the Village Trustees and Business Men's Association.

Belmar, N. J.—The Shark River Water Co. has had plans approved by the State Water Supply Commission for the construction of a dam.

Camden, N. J.—Plans are being prepared for the completion of connections in the new pumping plant and for the construction of an auxiliary pumping station at Morris Station. Bonds for $50,000 have been voted. Noted Apr. 8 and 29.

Collingswood, N. J.—According to press reports an election will soon be held to vote on the question of issuing bonds, the proceeds of which will be used for the purchase and improvement of the water system. Noted Aug. 27.

Perth Amboy, N. J.—Press reports state the plans are being prepared by S. J. Mason, City Engr., for the construction of a new pump house at the Runyon water-works.

Trenton, N. J.—The construction of high-pressure water mains in the Chambersburg district is under consideration by the City Commission. Alvin A. Bugbee is Supt. of Water-Wks.

Allentown, Penn.—Bids will soon be received for two water chlorination plants for the water-works. R. J. Wheeler is Supt. of Water Wks.

Erie, Penn.—(Official)—Bids are being received by the Board of Water Commissioners for increasing the elevation of the high-service standpipe. Chester & Fleming, Pittsburgh, is Engr.

★Philadelphia, Penn.—(Official)—Bids will be received until noon, May 25, in Room 225, City Hall, for laying c.-i. water mains under Contract No. 260. About 17,000 ft. of 48-in., 3300 ft. of 30-in. and 21,000 ft. of 24-in. pipe will be required. Noted Mar. 25.

†Sykesville, Penn.—The contract has been awarded to the CURWENSVILLE CONSTRUCTION CO., Curwensville, at $7739, for constructing a water system. Noted Sept. 24, Nov. 26, Apr. 3 and 29.

Milton, Del.—Plans have been prepared, according to press reports, by Charles E. Collins, Philadelphia, Penn., for the construction of a water system, estimated to cost $20,000. A. E. Jefferson is City Clk.

Salisbury, N. C.—The city contemplates holding an election to vote on the question of issuing $200,000 in bonds, part of which will be used for the extension of the water system.

Tuscaloosa, Ala.—An election will be held May 17 to vote on the question of issuing $16,000 in bonds, the proceeds of which will be used for the extension of the water and sewer systems.

Belzoni, Miss.—Bids will be received until May 18 by the city for the construction of 8000 ft. of 4-in. c.-i. water mains, hydrants and valves. Noted Feb. 4.

†New Orleans, La.—Press reports state that the contract has been awarded to HAMPTON REYNOLDS, at $43,500, by the Sewerage and Water Board for work at pumping station No. 2 at Louis and Broad St., under Contract No. 72 D.

†Vivian, La.—The contract has been awarded to the CHICAGO BRIDGE & IRON WORKS, Chicago, Ill., at $22,785, for installing a water system. Noted Dec. 10, Mar. 11 and Apr. 1.

Alliance, Ohio—(Official)—Bids are being received for the construction of a 40,000-gal. steel tank on a tower. Chester & Fleming, Pittsburgh, Penn., is Engr. Noted Mar. 25.

Bluffton, Ohio—(Official)—Bids will be received until May 17 by D. W. Bixler, Clk., Bd. of Pub. Wks., for making improvements to the water system. The W. J. Sherman Co., Toledo, is Engr. Noted Nov. 19 and Mar. 18.

†Chillicothe, Ohio—Contracts have been awarded by the Board of Public Works to the PITTSBURGH FILTER MFG. CO., Pittsburgh, Penn., at $9034, for mechanical equipment and filter for the coagulating basin and filter plant; F. D. MARTIN CONSTRUCTION CO. Kansas City, at $13,885, for settling basins, and to the THORMAL EFFICIENCY CO., Kansas City, Mo., at $3597, for centrifugal pumps and motors. Noted Jan. 28.

Cleveland, Ohio—Bids will be received until May 20 by the Commissioner of Purchases and Supplies for filter sand and gravel for the filtration plant at the Division pumping station. Charles F. Schultz, 413 Superior Ave., is Water Comr.

Cleveland, Ohio—Bids will be received until noon, May 21, by the Commissioner of Purchases and Supplies, City Hall, for furnishing and laying c.-i. pipe drains at the filtration plant. Charles F. Schultz, 413 Superior Ave., is Water Comr.

†Cleveland, Ohio—The contract has been awarded to the PITTSBURGH FILTER MFG. CO., Pittsburgh, Penn., at $15,120, for operating tables for the Division St. filtration plant. Noted Mar. 18 and Apr. 8.

†Cleveland, Ohio—The contract has been awarded to the RENSSELAER VALVE CO., Troy, N. Y., at $41,676, by the Board of Control for furnishing valves.

East Liverpool, Ohio—Bids will be received until noon, May 28, by the city for the purchase of $200,000 in bonds, the proceeds of which will be used for the extension and enlargement of the water system. James A. Kennedy is Audr. Noted Feb. 11 and 18 and Mar. 4.

†Toledo, Ohio—According to press reports, the contract has been awarded to the A. BENTLEY & SONS CO., Toledo, by the Board of Control for constructing a pumping plant building. Noted Feb. 2, Mar. 4 and 15 and Apr. 22.

Wadsworth, Ohio—(Official)—The W. J. Sherman Co., Toledo, has been retained by the village to make a valuation of the privately owned water and electric-light systems with a view to municipal ownership.

Gary, Ind.—The construction of 9000 ft. of 12-in. c.-i. water mains from Gary to Aetna is under consideration.

†Grand Rapids, Mich.—The contract has been awarded to McDERMOTT & COOPER, at $5333, by the Board of Public Works for laying water mains in Fourth St.

Aurora, Ill.—Bonds for $75,000 have been voted by the citizens, the proceeds of which will be used constructing an artesian well, and for extending the distributing system. Theodore A. Stinson is Supt. of Water-Wks. Noted Mar. 4.

Wenona, Ill.—See item under "Sewers."

Watertown, Wis.—Bids will be received until 8 p.m., May 11, by William F. Voss, Secy., Bd. of Water Comrs., for laying 2700 ft. of 6-in. and 500 ft. of 4-in. water pipe with specials.

Colo, Iowa—(Official)—Bids will be received until 8 p.m., May 24, by H. E. Ransom, Town Clk., for constructing a water system. The following materials will be required: 11,700 ft. of 4-in. c.-i., 2050 ft. of 6-in and 180 ft. of 8-in. water pipe, 24 hydrants, 12 valves, 50,000-gal. tank on a 100-ft. tower, 10-in. drilled well and pump. The estimated cost is $18,000. M. Cox is Engr. Noted Apr. 1 and 22.

Nevada, Iowa—Bids will be received until May 11 by R. A. Davis, City Clk., for driving an artesian well to a depth of 2000 ft. with a diameter from 8- to 16-in.

Onslow, Iowa—(Official)—Bids will be received until 8 p.m., May 25, by the Town Council for constructing a water system. The estimated cost is $8000.

Orange City, Iowa—Bonds for $10,500 have been voted, the proceeds of which will be used for the purchase of a new water supply tank, extension of the water mains and for moving the water tower.

✚★Winona, Minn.—The contract has been awarded to J. F. McCARTHY, Minneapolis, at $4520, for drilling four artesian wells. Alvord & Burdick, Hartford Bldg., Chicago, Ill., is Engr. Noted Mar. 11.

✚Pratt, Kan.—The contract has been awarded to the CONNOR CONSTRUCTION CO., Montgall St., at $47,262, for constructing a water system and an electric-light system. Noted Feb. 4 and Mar. 19.

Solomon, Kan.—An election will be held as soon as plans have been prepared to vote on the question of issuing bonds for $30,000, the proceeds of which will be used for the construction of a water system. Harper & Stiles, Grand Ave., Temple, Kansas City, Mo., is Engr.

Holbrook, Neb.—The citizens voted against the bond issue, the proceeds of which was to have been used for the installation of water and electric-light systems.

Sterling, Neb.—The citizens contemplate issuing bonds for $15,000, the proceeds of which will be used for the construction of a water system.

Saratoga, Wyo.—An election will be held May 11 to vote on the question of issuing bonds for $45,000, the proceeds of which will be used for the installation of a water system. J. Munz is Clk.

Chouteau, Mont.—Bids will soon be received for the construction of a water system. Noted July 9, 1914, and Mar. 18.

✚Clydepark, Mont.—The contract has been awarded to McLAUGHLIN & O'NEIL, Livingston, at $15,318, by the City Council for the construction of a water system. Noted Oct. 22, Nov. 26 and Mar. 18.

Caruthersville, Mo.—According to press reports bids will be received after May 10 by Frank L. Wilcox, Engr., Syndicate Trust Bldg., St. Louis, for making extensions to the water and sewer systems. The estimated cost is $62,000. Noted Mar. 11.

Lees Summit, Mo.—Revised plans are being prepared by Henrici, Kent & Lowry, Reserve Bank Bldg., Kansas City, Mo., for the construction of a water system. Estimated cost, $30,000.

Poplar Bluff, Mo.—The Poplar Bluff Water Co. will soon be in the market for machinery for the enlargement of its plant. P. R. Andrews is Ch. Engr.

Paragould, Ark.—According to press reports bonds for $25,000 have been sold, the proceeds of which will be used for the improvement of the water system in the Water-Works Improvement District No. 2.

✚Columbus, Tex.—An election will be held June 6 to vote on the question of issuing bonds, the proceeds of which will be used for the improvement of the water system. Noted Apr. 22.

Marfa, Tex.—John A. Pool, Sr., plans to build a dam and an irrigation pumping plant for the irrigation of 1000 acres.

Mineola, Tex.—The Mineola Ice, Light & Water Co. plans to spend $18,000 for the extension of its water mains. C. M. Dozier is Secy.

✚San Antonio, Tex.—The contract for installing a water system at the County Home for Aged has been awarded to the SAN ANTONIO MACHINE & SUPPLY CO., at $5050. Bids were opened Apr. 15. Noted Apr. 8.

Boswell, Okla.—Bids will be received until May 14 by the city for materials for the construction of a water system. James T. George is Engr. Noted Apr. 30, 1914.

Cushing, Okla.—The city contemplates constructing an artificial lake about 12 miles from the city and laying a 12-in. pipe line to the city. The estimated cost is $100,000.

Craig, Colo.—(Official)—We have been advised by E. H. Carr, Town Recdr., that bids will probably be received within 90 days for the construction of a water system. The estimated cost is $35,000. Noted Apr. 8 and 22.

Alamogordo, N. M.—According to press reports, J. A. Gore and L. G. Lilly plan to construct an irrigation system near Alamogordo.

✚Salt Lake City, Utah—(Official)—The contract has been awarded to JAMES STEWART & CO., Salt Lake City, at $70,485, for constructing a rubble concrete dam at Twin Lakes, Big Cottonwood Cañon. Other bidders were, (a) rubble concrete, (b) reinforced concrete: P. J. Moran Contracting Co., Inc., (a) $70,700, (b) $79,997; Samuel Williams, (a) $74,726, (b) $78,108; John Shea, (a) $82,025, (b) $82,935; Ryberg Bros., (a) $86,005, (b) $74,681; Enoch Smith, (a) $96,490, (b) $101,461; Bates & Rogers Construction Co., (a) $98,525, (b) $100,112; Stewart Engineering Corporation, (a) $74,996, and Morrison-Kundson Co., (b) $78,282. Noted Oct. 22, Mar. 18 and Apr. 8.

Glendale, Ariz.—(Official)—Bonds for the construction of a water system have been sold. Work will soon be commenced and will be done by city forces. Harry G. White is Town Clk. Noted Apr. 22.

Olympia, Wash.—In a recent suit brought by Olympia to determine the value of the water system owned by the Washington Public Service Corporation, the valuation was set at $88,500 by the jury. Noted Mar. 11.

Raymond, Wash.—Bonds for $117,000 have been sold, the proceeds of which will be used for the purchase and improvement of the system of the Raymond Water Co. Noted Jan. 28, Mar. 18 and 25.

Seattle, Wash.—Bids were received Apr. 23 by the City Council for constructing a siphon tunnel in Third Ave., W., under Lake Washington Canal, as follows: T. Ryan, Lowman Bldg., $13,266 (low bidder); L. R. Ellis, Seattle, $13,831; John Contracting Co., Seattle, $14,589; Booker, Kiel & Whipple, Seattle, $14,541, and Meacham & Babcock, Seattle, $15,532. Noted Apr. 8.

Eugene, Ore.—W. L. Benham, Eugene, is interested in an irrigation and drainage district covering about 10,000 acres of land between Willamette and McKenzie Rivers. About 20 miles of irrigation and drainage canals will be constructed at an estimated cost of from $500 to $2000 per mile.

✚Eugene, Ore.—The contract for cement work in the new reservoir, recently awarded to H. E. Doering, Eugene, has been forfeited, and the contract reawarded to GUY PYLE, Eugene, at $10,635. Noted Apr. 1 and 22.

Anderson, Calif.—Surveys and estimates for the Anderson-Cottonwood Irrigation District have been approved by the State Engineer. An election will now be held to vote on the question of issuing bonds for the construction of the irrigation system. Noted June 25 and July 30, 1914.

✚★Sacramento, Calif.—The contract has been awarded to the SCHAW-BATCHER CO., Sacramento, at $593,529, by the City Commission for the extension of the water system. Noted Apr. 1.

✚San Bernardino, Calif.—Contracts have been awarded by the Water Commissioners to the WESTERN PIPE & STEEL CO., and the BAKER IRON WORKS at $7918 and $3765, respectively, for 20-in. and 12-in. water mains. Noted Apr. 8.

Willows, Calif.—The Ryan Irrigation Co. has started preliminary work on the construction of an irrigation system in Glenn County to irrigate 25,000 acres. John P. Ryan, Willows, is Engr. and promoter.

Ford, Ont.—The citizens voted in favor of spending $10,000 for laying 8-in. water mains. G. F. Foster is Town Clk.

Toronto, Ont.—The Board of Control will soon receive new bids for the installation of two electrically driven centrifugal pumps for the main pumping station. R. C. Harris is Comr. of Works.

Assiniboia, Sask.—The city contemplates constructing a water system at an estimated cost of $65,000. J. R. Nolan is Secy.-Treas. and Murphy & Underwood, Saskatoon, is Engr.

SEWERS

Boston, Mass.—Bids will be received until May 7 by the Department of Public Works for constructing sewers and drains in Kempton and Mission St., Roxbury District. Patrick O'Hearn is Comr., Dept. of Pub. Wks.

✚Boston, Mass.—(Official)—Bids were received Apr. 23 by the Department of Public Works for sewer work in (a) Gustive and Fairview St. and (b) in Peacevale Rd. from Norfolk St. to Dunbar Ave., Dorchester District, as follows: A. E. DADDARIO, (a) $811 (awarded contract), (b) $1957; Louis Balboni, (a) $830, (b) $1512; James J. Conway, (a) $847, (b) $1713; CONCRETE CONSTRUCTION CO., (a) $851, (b) $1453 (awarded contract); Antony Cefalo, (a) $878, (b) $1595; John F. Corrigan, (a) $942; C. J. Jacobs Co., (a) $955, (b) $2084; M. De Sisto, (a) $1029, (b) $2021; Charles Latorella, (a) $1051, (b) $1858; Booth & Daddario, (a) $1107, (b) $2882; John Guarino, (a) $1136, (b) $1802; M. H. Kelley, (a) $1160; (b) $1896; Peter Bompiani & Co., (a) $1338, (b) $4137; Albert C. Berry, (a) $1528; Ralph A. D'Italia, (a) $2202; William L. Bolan, (b) $1774; Anthony Baruffaldi, (b) $1966; John McCourt Co., (b) $2423. Noted Apr. 22.

Boston, Mass.—Bids were received Apr. 20 for sewer work in Hutevale and Wiggin St. and other streets as follows: Frank Drinkwater, $1722; A. E. Daddario, $1787; Louis Balboni, $1798; Antony Cefalo, $1931; Charles Latorella, $2122; John Guarino, $2137; James J. Conway, $2160; William L. Dolan, $2216; Concrete Construction Co., $2224; Daddario & Booth, $2420; V. Grande, $2484; James L. Pierce & Co., $2507; Charles J. Jacobs & Co., $2612; John Landis, $4652.

Newton, Mass.—Bids will be received until 10 a.m., May 14, by George E. Stuart, Street Comr., for the construction of sewers in John St., Beecher Pl., Langley Rd. and in other streets.

Quincy, Mass.—The city has appropriated $25,000 for sewer construction.

South Hadley, Mass.—Bids will be received until 8 p.m., May 11 by the Board of Sewer Commissioners for the construction of 1500 ft. of 6-in. and 1100 ft. of 18-in. vitrified tile sewers. Ellsworth & Howes, Holyoke, is Engr.

Woonsocket, R. I.—The City Council has appropriated $5626 for the construction of sewers in Social St. F. H. Mills is City Engr.

✚Great Neck Station, N. Y.—(Official)—The contract has been awarded to KING BROS. for the construction of 12 miles of 8- to 24-in. vitrified pipe sewers, appurtenances and two pumping stations, c.-i.-force mains and disposal works and sedimentation tanks.

Lake View, N. Y.—The Syracuse Intercepting Sewer Board has purchased a site at Lake View and will construct a sewage purification plant.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received Apr. 26 for constructing sewers in various streets of the Borough as follows: M. P. Moran, 86%; Stanhope Contracting Co., 97.75%; J. J. Creem, 105%, 100%; Rosenthal Engineering Co., 104%; P. J. Donlin Contracting Co., 103%, 135%; D. Donegon Co., 91.95%, 94.95%; Ward & Tully, Inc., 98.4%, 103%; Bonaci Contracting Co., 79%, 112.9%; Norton & Gorman, 74.82%, 91%; Paino Bros., 90.99%; Newman & Cary Co., 143%, 132%; Kingsbridge Contracting Co., 109%, 109%; Murphy Bros., 85.44%; L. E. Kelly, 108.3%.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids were received Apr. 28 by L. H. Pounds, Borough Pres., for constructing a sewer in Wortman Ave. between New Jersey Ave. and Vermont St. as follows: M. P. Moran, 84.61%; T. Lapadula, 103.99%; Stanhope Contracting Co., 102½%; T. A. Pellagrino Construction Co., 81.65%; Parks Contracting Co., 128%; Rosenthal Engineering & Contracting Co., 94%; E. Gelardi Contracting Co., 94.98%; A. A. Dumproff, 112%; L. E. Kelly, 120%; J. J. Creen, 124%; Joseph Jennings, 93.53%; P. J. Donlin Contracting Co., 93%. Noted Apr. 22.

Niagara Falls, N. Y.—The Board of Aldermen has authorized a bond issue of $75,000, the proceeds of which will be used for constructing sewers.

Oneida, N. Y.—Bids will be received until May 7 by D. J. Covell, City Clk., for constructing sewers in Lenox Ave., Williams and Tilden St. J. M. Hutton is City Engr.

✚Oswego, N. Y.—(Official)—Contracts for sewer construction have been awarded to F. J. O'BRIEN, Oswego, $4945; ANGELO FALVO, Oswego, $2852; CHARLES BROWN, Syracuse, $3524. Noted Mar. 18 and Apr. 29.

Syracuse, N. Y.—(Official)—Bids will be received in June by the Board of Contract and Supply for the construction of the Huntley sewer system. W. Thomas Wooley is City Engr. Noted Nov. 20 and Apr. 29.

Newark, N. J.—Bids will be received until 2 p.m., May 11, by the Passaic Valley Sewer Commission, Essex Bldg., Newark, for the construction of the northern portion of Section 19 of the Acquacknonk, Garfield and Passaic branch of the Main Intercepting Sewer.

✚Oaklyn, N. J.—(Official)—Bids were received Apr. 16 by the Borough Council for the construction of (a) sewage-disposal plant, and (b) sewer system as follows: KELLY-McFEELEY CO., Camden, (a) $10,469 (awarded contract), (b) $28,330; M. & T. E. Farrell, West Chester, Penn., (a) $12,375, (b) $27,330; J. E. Brenneman, Philadelphia, Penn., (a) $11,028, (b) $28,939; Cantrell Construction Co., Philadelphia, Penn., (a) $12,350, (b) $28,430; Suburban Engineering Co., New York, N. Y., (a) $11,470, (b) $29,600; Sutton & Corson, Ocean City, N. J., (a) $11,998, (b) $33,369; Averill-Matthews, Newark, N. J., (a) $12,079. Noted Dec. 3, Mar. 11 and Apr. 1.

South Boundbrook, N. J.—The city contemplates the construction of a sewage-disposal plant estimated to cost $25,000

Verona, N. J.—At an election held Apr. 27 the citizens voted to issue $80,000 in bonds, the proceeds of which will be used for the construction of a sewer system. Noted Apr. 1.

Greenville, Penn.—The lowest bid submitted for the construction of a sewage-disposal plant and intercepting sewers was that of Lesher, Roess, & Lesher, Oil City. Chester & Fleming, Union Bank Bldg., Pittsburgh, is Engr.

✚Montgomery, Penn.—The contract for the construction of sewers in Houston Ave. and in Kinsey St. has been awarded to JAMES NUSS.

Scranton, Penn.—The city contemplates the construction of a lateral sewer system in the 15th Ward.

West Chester, Penn.—Bids will be received until May 12 by the Borough Council for the construction of a sewer system. N. R. Rambo is Engr.

✚Baltimore, Md.—(Official)—The contract for the construction of sewers in Section 1 of the Gwynn's Falls Interceptor has been awarded to JAMES FERRY & SONS, at $26,817. Noted Apr. 8 and 29.

Easton, Md.—Bids will be reecived until May 25 by James B. Clark, City Clk., for the construction of sludge and sand filter beds at the sewage-disposal plant and extending the south outfall sewer. Kastenhuber & Anderson is Engr.

Suffolk, Va.—The City Council contemplates issuing $50,000 in bonds, the proceeds of which will be used for the construction of sewers.

Greenville, S. C.—The citizens voted $25,000 in bonds for the construction of a sewer system. Noted Apr. 8.

✚Manning, S. C.—A contract for sewer work has been awarded to WALTON & WAGNER, Atlanta, Ga., at $4377.

✚Macon, Ga.—The contract for the construction of a sewer in West Vineville has been awarded to the DYSARD CONSTRUCTION CO., Atlanta, at $8196. Noted Oct. 8, Mar. 25 and Apr. 15.

Starke, Fla.—An election will be held May 31 to vote on the question of issuing $26,000 in bonds, the proceeds of which will be used for the construction of a sewer system. Noted Dec. 31. The J. B. McCrary Co. is Engr.

✚Birmingham, Ala.—The Board of Commissioners has awarded the contract for the construction of sanitary sewers in East Birmingham to H. N. BOWDRY. The estimated cost is $5519. Noted Apr. 8.

Tuscaloosa, Ala.—An election will be held on May 17 to vote on the question of issuing $16,000 in bonds, the proceeds of which will be used for the construction of a sewer system.

Greenwood, Miss.—(Official)—The city contemplates the construction of storm sewers. Stanley Cobham is City Engr.

Okolona, Miss.—Bids will be received about May 15 by Frank L. Wilcox, Engr., Syndicate Trust Bldg., St. Louis, Mo., for the construction of a sewer system. Estimated cost, $40,000. Noted Jan. 28, Mar. 4 and Apr. 8.

Madisonville, Ky.—The city contemplates the construction of sewers in Seminary, Arch, Sugg, Center and Noel St. and in Broadway, West Side.

Ashtabula, Ohio—Plans have been prepared by L. A. Amsden, City Engr., for the construction of sanitary sewers in Mill and Gem St., Kain Rd. and in Woodman Ave.

Canton, Ohio—Plans have been prepared for the construction of intercepting sewers in the eastern part of the city to relieve the overflowing sanitary conditions. William E. Sarver is City Engr.

✚Cheviot, Ohio—(Cincinnati post office)—(Official)—The contract for the construction of a sewer in Harrison Ave. from Beech St. to Francis Ave. has been awarded to the JOHN B. McLANE & CO., 337 York St., Newport, Ky., $5277. Other bids were: John L. Walker & Co., Hamilton, $6439; John L. Ruebel Construction Co., $6628; Thomas P. Strack, $7003; Welling & Franz, $7057; D. P. Foley, $8653. Bids were opened Apr. 24. Noted Apr. 22. J. A. Stewart is City Engr.

✚Cincinnati, Ohio—(Official)—The contract for the construction of the Ludlow Run trunk sewer has been awarded to the CONNELLY CONSTRUCTION CO., Cincinnati, at $35,704. Noted Apr. 29.

Cincinnati, Ohio—Bids will be received until noon, May 11, by Philip Fosdick, Dir. of Pub. Ser., for constructing sewers in Manns and Latham Ave. and various other streets.

Cincinnati, Ohio—Bids will be received until noon, May 14, by Philip Fosdick, Dir. of Pub. Ser., for the construction of main and lateral sewers and drains in Donnell St., Michell, North Edgewood, East Epsworth and Orient Ave.

Cincinnati, Ohio—Bids will be received until noon, May 11, by Philip Fosdick, Dir. of Pub. Ser., for improving the sewers in Daniels St. from Alice to Bishop St.

Cincinnati, Ohio—The city contemplates the construction of a sewer intercepter in Muddy Creek and the construction of a sewage-disposal plant. The estimated cost is $90,000

✚Cleveland, Ohio—The Board of Control has awarded the contract for the construction of a sewer in 105th St. to WILLIAM LECHMANN, at $50,879. Bids were opened Apr. 15. Noted Mar. 4 and Apr. 8.

✚Cleveland, Ohio—The contract for the construction of a sewer in Eddy Rd. has been awarded to the BROOKSIDE CONSTRUCTION CO., at $15,885. Bids were opened Apr. 8.

Findlay, Ohio—The city will issue $55,000 in bonds, the proceeds of which will be used for the construction of sanitary and storm sewers. H. A. Glathart is City Engr.

Kent, Ohio—The lowest bid submitted for the construction of a sanitary sewer system was that of William Hunt, Akron, at $59,600.

Lowellville, Ohio—The lowest bid submitted for the construction of the North Side sewer was that of the Turner-Olsen Contracting Co., Youngstown, at $24,961.

Mansfield, Ohio—An election will soon be held to vote on the question of issuing $10,000 in bonds, the proceeds of which will be used for the construction of a sewage disposal plant. F. A. Barber, 1130 Tremont Bldg., Boston, Mass., is Engr. Noted Apr. 8.

Piqua, Ohio—Bids will be received until May 10 by R. H. Heater, Clk. Bd. of Pub. Ser., for the construction of a sanitary sewer in Adams St.

★Rittman, Ohio—(Official)—Bids will be received until 1 p.m., May 25, by Vance Hickin, Clk., for the construction of a sewer system and a sewage treatment plant.

Springfield, Ohio—Bids will be received until noon, May 14, by Charles E. Ashburner for the construction of a sanitary sewer in Cassilly St.

Struthers, Ohio—Bids will be received until noon, June 9, by Jonah Richards, Clk., for the construction of sanitary and storm sewers in Sexton St.

Swanton, Ohio—Bids will be received until noon, May 10, by William B. Elwell, City Clk., for the construction of sewer No. 1 in Sewer District No. 2.

Washington, C. H., Ohio—The city contemplates constructing sewers in North St. from Broadway to the alley between Court and Market St. Charles F. Coffey is Mayor.

✚Hammond, Ind.—The Board of Public Works has awarded the contract to the CALUMET SEWER CONSTRUCTION CO. for the construction of the sewer in Columbia Ave. Noted Apr. 15.

Princeton, Ind.—The city contemplates the construction of a trunk sewer for the South Side.

South Bend, Ind.—Bids will be received until May 15 by the Board of Public Works for the construction of a trunk sewer in Michigan St. The estimated cost is $50,000. E. M. Morris is Chn. of Bd. Pub. Wks. Noted Apr. 8.

✚Aurora, Ill.—(Official)—The contract has been awarded to R. P. KUCHN, Auroro, at $4406, for constructing sewers in various streets.

Kankakee, Ill.—The city contemplates constructing sanitary sewers in Bradley St. The estimated cost is $208,000.

✚Pana, Ill.—(Official)—The contract for the construction of a sewage treatment plant has been awarded to SELL & KOLLAR, Pana, at $26,692. Other bids were H. H. Hall, East St. Louis, $27,749; Dunlap-Dippoed Co., Edwardsville, $27,053; E. R. Harding Co., Racine, Wis., $31,956. Noted Apr. 8 and 29. A. C. Stanfield is City Engr.

Salem, Ill.—Bids will soon be received by the Board of Local Improvements for the construction of a sewer system. Estimated cost, $70,000.

Wenona, Ill.—The citizens have voted $25,000 in bonds for the construction of a sewer and water system.

✚Appleton, Wis.—(Official)—The contract for constructing sewers in South River, Madison and Jefferson St. has been awarded to H. BUSHOUS. Noted Apr. 15.

Oconomowoc, Wis.—Bids will be received until 1 p.m., May 21, by the Board of Public Works for constructing storm sewers in various streets. J. A. Stemper is City Engr.

Ripon, Wis.—Bids will be received until 4 p.m., May 31, by the Board of Public Works for the reconstruction of the southeast bed of sewers. J. W. Pierce is city Clk.

Blanchard, Iowa—The City Council contemplates holding a special election, at which the question of constructing a sewer system will be submitted to the voters.

Council Bluffs, Iowa—Bids will soon be received by the Department of Public Works for the construction of the Miller Park sewer, estimated to cost $50,000, and for extending the Saddle Creek sewer southwest of Harney St. The estimated cost is $50,000.

Mt. Ayr, Iowa—Bids will be received until May 17 by the Council for the construction of a sewer system. The estimated cost is $30,000. Noted Mar. 25 and Apr. 22. E. T. Archer & Co., 407 New England Bldg., Kansas City, Mo., is Engr.

Sioux City, Iowa—The city contemplates the construction of a storm sewer system in North Riverside. The estimated cost is $12,000.

Waterloo, Iowa—Plans have been prepared for the extension of the sewer system and for the construction of a sewage-disposal plant. C. A. Roby is City Engr.

✚Waukon, Iowa—The contract for the construction of a sewer system has been awarded to M. TSCHIRIGI & SON, Cedar Rapids, at $26,984. Noted Oct. 1 and 29.

Breckenridge, Minn.—Plans are being prepared by C. Baker, Engr., Wahpeton, N. D., for the construction of a sewer system. The estimated cost is $18,000.

Chatfield, Minn.—Plans are being prepared by F. Bass, Minneapolis, for the construction of sewers. S. C. Bibbens is Clk.

St. Paul, Minn.—All bids received for the construction of sewers in Raymond Ave. and Howard St. have been rejected. The work will be readvertised. Oscar Claussen is City Engr.

St. Paul, Minn.—The city contemplates the construction of the Fredericka-Fairmont sewer system. The estimated cost is $139,000.

Watertown, S. D.—The citizens voted to issue $88,000 in bonds for the construction of sewers.

Caruthersville, Mo.—See item under "Water Supply—Irrigation."

Kansas City, Mo.—An election will be held June 1 to vote on the question to issue $400,000 in bonds, the proceeds of which will be used for sewer construction.

✚Little Rock, Ark.—(Official)—The contract for the construction of storm and sanitary sewers in District No. 78 has been awarded to MERINO, BROOKS & BURKHAM, St. Louis, Mo., at $48,000. Ford & MacCrea is Engr. Noted Apr. 8.

Little Rock, Ark.—The city contemplates constructing sewers in the eastern part of District No. 79.

Beaumont, Tex.—The city has postponed the election to vote on the question of issuing $30,000 in bonds for the construction of sewers from May 20 to May 25. Noted Apr. 22.

Kaufman, Tex.—At a recent election the citizens voted $20,000 in bonds, the proceeds of which will be used for the construction of sewers.

✚Oak Cliff, Tex.—(Dallas post office)—(Official)—The contract for the construction of the Cedar Creek intercepter and overflow sewer has been awarded to the ROACH MANIGAN CO., at $32,149. Noted Apr. 22.

Limon, Colo.—Bids will be received until May 12 by Carl M. Cook, City Clk., for the construction of sewers. Plans have been prepared by George H. Sethman, Equitable Bldg., Denver.

✚Lewiston, Idaho—(Official)—The contract for sewer construction in District No. 6 has been awarded to the SECURITY BRIDGE CO., Lewiston, at $7833. Noted Apr. 15.

Salt Lake City, Utah—It is reported that bids will be received until June 1 by the City Recorder for the purchase of $100,000 in bonds, the proceeds of which will be used for the construction of sewer outlets in the western part of the city.

✚Spokane, Wash.—(Official)—The contract for the construction of the Sprague Ave. and Division St. section of the proposed sewer changes in connection with the Northern Pacific grade separation work has been awarded to W. J. HAY & CO., St. Paul, Minn., at $25,500. Noted Apr. 1 and 22.

North Bend, Ore.—The City Council has approved plans submitted by the City Engineer for the construction of a sewer system. It is reported that bids will soon be received. The estimated cost is $25,300.

Los Angeles, Calif.—The lowest bid received for the construction of a sewer in Mission Rd. from Baldwin St. to North Broadway and in other streets was that of Adam Dalmatin, Los Angeles, at $6300.

Los Angeles, Calif.—The lowest bid submitted for the construction of a sewer in Medford St. from Soto to Murichson St. and in other streets was that of J. J. Papac, Los Angeles, at $5448.

Port Angles, Calif.—Plans are being prepared by C. H. Green & Co., Engr., Spokane, Wash., for the construction of a sewer system.

Santa Monica, Calif.—An election will soon be held to vote on the question of issuing $236,633 in bonds, the proceeds of which will be used for the construction of a storm sewer system. Plans have been prepared by the City Engineer. Noted Dec. 3 and Jan. 21.

Stockton, Calif.—An election will be held in June to vote on the question of issuing $350.000 in bonds, the proceeds of which will be used for the construction of sanitary sewers.

Joliette, Que.—The Town Council plans to construct sewers estimated to cost $16,000.

Valleyfield, Que.—The Council contemplates constructing 3000 lin.ft. of sewers. The estimated cost is $12,000.

✚Dunnville, Ont.—The contract for the construction of a sewer system has been awarded to the FRONTIER CONTRACTING CO. The estimated cost is $5000. Noted Apr. 15.

London, Ont.—Bids will be received until 10 a.m., May 7, by S. Baker, City Clk., for the construction of a sanitary sewer in Price St., storm and sanitary sewers in Dundas East, and storm sewers in Carling Creek West and East.

Toronto, Ont.—Bids will be received until noon, May 11, by T. L. Church, Chn. of Bd. of Control, for the installation of a sludge pump and motor for the main sewage-disposal works.

GARBAGE

✚Toronto, Ont.—The contract has been awarded to the CANADIAN GRISCOM-RUSSELL CO., for constructing the Don Incinerator. Noted Nov. 19, Mar. 18 and Apr. 22.

STREETS AND ROADS

Augusta, Maine—Amounts have been apportioned to be spent by the State Highway Commission for roads in various counties as follows: Androscoggin, $35,000; Aroostook, $25,000; Cumberland, $75,000; Franklin, $10,000; Hancock, $10,000; Kennebec, $25,000; Knox, $7000; Lincoln, nothing; Oxford, $15,000; Penobscot, $25,000; Piscataquis, nothing; Sagadahoc, $7000; Somerset, $20,000; Waldo, $12,000; Washington, $15,000; York, $2000. The total amount to be spent is $269,000.

Boston, Mass.—Bids will be received until May 11 by the Massachusetts Highway Commission for the construction of 17,100 lin.ft. of road in Falmouth, and for 7700 lin.ft. of road in Westford. Arthur W. Dean, 15 Ashburton Pl., is Ch. Engr.

✚Boston, Mass.—The contract for constructing 15,200 lin.ft. of state road in Bernardston has been awarded to E. R. NEWELL, Uxbridge, at $9834 for gravel, and at $14,195 for bituminous. Noted Apr. 15.

✚Boston, Mass.—(Official)—A contract for constructing stone sidewalks, steps and walls in Wellington Hill Footway from Wellington Hill to Walk Hill St., Dorchester District, has been awarded to PETER POMPIANI & CO., at $3747. Other bids were: John McCourt Co., $3993; James Doherty, $3995; John Landis, $3997; Concrete Construction Co., $4075; D. M. Biggs, $4149; Charles J. Jacobs, $4278; Warren Bros. Co., $4620; Simpson Bros., Corporation, $5605. Noted Apr. 22.

Fall River, Mass.—Bids will be received until 11:30 a.m., May 6, for laying hassam block paving and hassam concrete paving in accordance with specifications of the Street Department. Albert Wolstenholme is Supt. of Streets.

Newton, Mass.—Bids will be received until 11 a.m., May 14, by George E. Stuart, Street Comr., for building artificial stone curbing, walks and driveways.

✚Pittsfield, Mass.—Contracts have been awarded for paving West St. to WEED & WALSH, at $13,033, and Woodleigh Ave. to O. T. BENEDICT, at $5525.

Woonsocket, R. I.—The City Council, Apr. 27, appropriated $46,000 for paving Clinton St. with granite block. F. A. Mills is City Engr.

Bridgeport, Conn.—The City Council contemplates an expenditure of $250,000 for resurfacing public streets with warrenite.

✚Hartford, Conn.—Contracts have been awarded for asphalt paving and repair work to the UNION PAVING CO., Schenectady, N. Y., at $36,316, for 530 lin.ft. curbing and street corners, 460 lin.ft. granite headers, 1950 sq.yd. new flagstone, relaying 10,000 ft. granite curbing, $53,250 sq.ft. flag walk and 700 lin. ft. granite curbing to A. WATSON, Hartford, at $6490.

Hartford, Conn.—Bids will be received until 2 p.m., May 10, by the State Highway Commission, for state road work as follows: Greenwich Township, about 8475 lin.ft. bituminous concrete, amiesite or warrenite; Westport Township, about 813 lin.ft. brick pavement over concrete base; Simsbury Township, about 5300 lin.ft. bituminous concrete, amiesite or warrenite.

★Albany, N. Y.—(Official)—Bids will be received until 1 p.m., May 21, by Edwin Duffey, State Highway Comr., for improving highways in various counties.

★Albany, N. Y.—(Official)—Bids were received Apr. 20 by Edwin Duffey, State Highway Comr., and contracts awarded for repairing public highways by State Aid as follows: Repair Contract No. 705, Albany County, HIGHWAY ENGINEERING CO., Albany, $87,193; Repair Contract No. 695, Broome County, GEORGE HOLLER, Albany, $9911; Repair Contract No. 694, Chenango County, GEORGE HOLLER, Albany, $2291; Repair Contract No. 707, Clinton County, JOHN F. LEWIS, Albany, $30,435; Repair Contract No. 697, Otsego County, GEORGE HOLLER, Albany, $9971; Repair Contract No. 692, Schoharie County, GEORGE HOLLER, Albany, $5599; Repair Contract No. 704, J. J. GUINAN CONTRACTING CO., Brooklyn, $16,343; Repair Contract No. 703, Wayne County, SWEENEY & BOLAND, Rochester, $3000; Repair Contract No. 711, Wyoming County, McCARTHY & WALL, Mt. Morris, $8572. Noted Apr. 1 and 29.

✚★Albany, N. Y.—Official)—Bids were received Apr. 26 by Edwin Duffey, State Highway Comr., and contracts awarded for furnishing bituminous material to various counties as follows: Contract No. 1, Division No. 1, JOHN BAKER, JR., $25,244; Contract No. 2, Division No. 1, BARRETT MFG. CO., $45,880; Contract No. 3, Division No. 1, BARRETT MFG. CO., $2790; Contract No. 4, Division No. 2, JOHN BAKER, JR., $12,892; Contract No. 5, Division No. 2, BARRETT MFG. CO., $2276; Contract No. 6, Division No. 3, JOHN BAKER, JR., $1734; Contract No. 7, Division No. 3, BARRETT MFG. CO., $3937; Contract No. 8, Division No. 4, JOHN BAKER, JR., $11,242; Contract No. 9, Division No. 4, BARRETT MFG. CO., $2395; Contract No. 10, Division No. 5, JOHN BAKER, JR., $11,168; Contract No. 11, Division No. 5, BARRETT MFG. CO., $2353; Contract No. 12, Division No. 6, JOHN BAKER JR., $5583; Contract No. 13, Division No. 6, BARRETT MFG. CO., $8544. Contract No. 14, Division No. 7, JOHN BAKER, JR., $3192; Contract No. 15, Division No. 7, BARRETT MFG. CO., $3205; Contract No. 16, Division No. 7, BARRETT MFG. CO., $1378; Contract No. 17, Division No. 8, JOHN BAKER, JR., $5539; Contract No. 18, Division No. 8, BARRETT MFG. CO., $2284; Contract No. 19, Division No. 9, JOHN BAKER, JR., $6442; Contract No. 20, Division No. 9, BARRETT MFG. CO., $2724. Noted Apr. 15 and 29.

✚★Albany, N. Y.—(Official)—Bids were received Apr. 29 by Edwin Duffey, State Highway Comr., and contracts awarded for furnishing broken stone to the various counties as follows:

Stone Contract No. 41, Albany County, 1840 tons. William Green, Schenectady, $4687; M. F. DOLLARD, Albany, $3586 (awarded contract); Langan Construction Corporation, Albany, $4643; Ralph W. Horne, New York, $4314; David H. Craw, Ravena, $3902; Highway Engineering Co., Albany, $4229.

Stone Contract No. 41, Albany County, 1840 tons. J. J. Malloy, Schenectady, $4176; BROWN & LOWE CO., Schenectady, $3724 (awarded contract); Ralph W. Horne, New York, $4054; J. T. D. Blackburn, Albany, $5012; John P. Miller, Schenectady, $4250; James T. Murray, Troy, $4008; Highway Engineering Co., Albany, $4324.

Stone Contract No. 54, Allegany County, 820 tons. KENNEDY CONSTRUCTION CO., Hornell, $2220 (awarded contract); McGreevey, McGulgan & Baum Construction Co., Elmira, $2540.

Stone Contract No. 32, Broome County, 1175 tons. PADDLEFORD & KING, Sherburne, $3040 (awarded contract).

Stone Contract No. 33, Broome County, 1365 tons. SMITH & KENT, Pine Valley, $3092 (awarded contract); Paddleford & King, Sherburne, $3098.

Stone Contract No. 57, Cattaraugus and Chautauqua Counties, 2450 tons. John Johnson Construction Co., Buffalo, $7325. Bid rejected.

Stone Contract No. 51, Cayuga County, 491 tons. No bids received.

Stone Contract No. 53, Chemung County, 1380 tons. Kennedy Construction Co., Hornell, $3690; McGREEVEY, McGUIGAN & BAUM CONSTRUCTION CO., Elmira, $3436 (awarded contract).

Stone Contract No. 37, Chenango County, 2645 tons. Nash & Griffin, Norwich, $6982; PADDLEFORD & KING, Sherburne, $6586 (awarded contract); Stewart Bros., South Plymouth, 6982; Richard Hopkins, Troy, $6982; M. F. Lannor, Norwich, $6850.

Stone Contract No. 46, Cortland County, 1010 tons. A. L. Call (unsigned), Cortland, $2161; RICHARD HOPKINS, Troy, $2293 (awarded contract).

Stone Contract No. 31, Delaware and Schoharie Counties, 1540 tons: RICHARD HOPKINS, Troy, $6474 (awarded contract).

Stone Contract No. 59, Erie County, 5050 tons: John Johnson Construction Co., Buffalo, $11,312; F H. WELLS, Corfu, $10,352 (awarded contract).

Stone Contract No. 60, Erie County, 3550 tons: John Johnson Construction Co., Buffalo, $9234; F. H. Wells, Corfu, $7563; JOHN W. LANDEL, Tonawanda, $7117 (awarded contract).

Stone Contract No. 58, Niagara County, 1400 tons: J. R. GOULD, Lockport, $2605 (awarded contract); W. D. Dickson, Lockport, $2882; John Johnson Construction Co., Buffalo, $3528.

Stone Contract No. 48, Onondaga County, 1165 tons: RICHARD HOPKINS, Troy, $2707 (awarded contract)

Stone Contract No. 35, Atsego County, 790 tons: Sherman Contracting Co., Inc., Oneonta, $1893; LANE CONSTRUCTION CO., Meriden, Conn., $1817 (awarded contract).

Stone Contract No. 43, Rensselaer County, 600 cu.yd.: Clarence E. Walker, Troy, $2079; JAMES T. MURRAY, Troy, $1909 (awarded contract); Edward Ott, Poestenkill, $2079.

Stone Contract No. 44, Rensselaer County, 1840 tons: William T. Shine, Troy, $2848; JAMES T MURRAY, Troy, $2728 (awarded contract); James J. Rigney, Rensselaer, $2833; John T. D. Blackburn, Albany, $3685.

Stone Contract No. 42, Rensselaer County, 815 cu.yd.: William T. Shine, Troy, $2627; JAMES T. MURRAY, Troy, $2192 (awarded contract); Hiram F. Sheffer, Troy, $2584; Edward Ott, Poestenkill, $2828.

Stone Contract No. 39, Saratoga County, 1650 tons: Mix Stone Co., Schoharie, $4422; William J. Morrissey, Saratoga, $4455. All bids rejected.

Stone Contract No. 45, Schenectady County, 2025 tons: BROWN & LOWE CO., Schenectady, $3659 (awarded contract); Ralph W. Horne, New York, $4501; Miller Bros., Schenectady, $4596; J. J. Malloy, Schenectady, $4009; Highway Engineering Co., Albany, $4495; J. P. Dugan & Co., Amsterdam, $4830.

Stone Contract No. 36, Schoharie County, 391 cu.yd.: Mix Stone Co. Schoharie, $1090; CHARLES ROSE & SON, Cobleskill, $938 (awarded contract).

Stone Contract No. 55, Schuyler County, 400 tons: McGreevey, McGuigan & Baum Construction Co., Elmira, $1040; KENNEDY CONSTRUCTION CO., Hornell, $980 (awarded contract).

Stone Contract No 49, Seneca County, 355 tons: Kennedy Construction Co., Hornell, $1065. Bid rejected.

Stone Contract No. 34, Sullivan County, 265 tons: G. C. BENNELL, Liberty, $927 (awarded contract).

Stone Contract No. 56, Tioga County, 780 tons: Kennedy Construction Co., Hornell, $2000; RICHARD HOPKINS, Troy, $1819 (awarded contract); McGreevey, McGuigan & Baum Construction Co., Elmira, $2106

Stone Contract No. 52, Tompkins County, 2465 tons: Kennedy Construction Co., Hornell, $6050; RICHARD HOPKINS, Troy, $5825 (awarded contract); McGreevey, McGuigan & Baum Construction Co., Elmira, $6384.

Stone Contract No. 47, Wayne County, 605 tons: No bids received.

Stone Contract No. 38, Yates County, 250 tons: McGreevey, McGuigan & Baum Construction Co., Elmira, $812; Richard Honkins, Troy, $690; KENNEDY CONSTRUCTION CO., Hornell, $675 (awarded contract).

Stone Contract No. 50, Oswego County, 755 tons: DE BARBER & HILL, Fulton, $1698 (awarded contract) Pathfinder Construction Co, Fulton, $1963. Noted Apr. 22.

Albion, N. Y.—The Supervisors of Orleans County have voted to construct two county highways at an estimated cost of $144,200.

Bronxville, N. Y.—Bonds for $6000 were sold Apr. 28, the proceeds of which will be used for road improvements.

Cattaraugus, N. Y.—Press reports state that at a recent election the citizens voted in favor of issuing $19,500 in bonds, the proceeds of which will be used for paving two streets with brick.

✚Gloversville, N. Y.—The contract for paving Jay and West Eighth St. with concrete and macadam has been awarded to J. P. DUGAN & CO., Amsterdam, at $21,238. Other bids were: A. M. Baker, Gloversville, $26,553; Parkes-Hassam Paving Co., Worcester, $25,235; Schenectady Contracting Co., Schenectady, $28,478; A. L. Willey, Binghamton, $24,098.

Herkimer, N. Y.—Bonds for $102,280 have been sold, the proceeds of which will be used for improving highways in Herkimer County.

Mineola, N. Y.—The Mineola Homes Co., Inc., 358 Fifth Ave., New York, N. Y., will lay out several streets and install sidewalks and curbs. Fairfield & Dow, Mineola, is Engr.

New York, N. Y.—(Borough of Bronx)—(Official)—Bids were received Apr. 29 for repairing asphalt block pavement and setting curb where necessary as follows: Hastings Paving Co., $16,230; Barber Asphalt Co., $15,195; Asphalt Construction Co., $16,092. Noted Apr. 22.

✚New York, N. Y.—(Borough of Brooklyn)—The contracts for improving East 10th St. from Ave. N to Ave. O, East 12th St. from Ave. R to Ave. S, and 38th St. from 10th St. to Ft. Hamilton Ave. have been awarded to the BROOKLYN ALCATRAZ ASPHALT CO., at $4236, $4056 and $3910 respectively. Noted Apr. 15 and 29.

✚Yonkers, N. Y.—The contract for paving Yonkers Ave. with asphalt block has been awarded to J. B. PENNELL & CO., Yonkers, at $130,329.

★Bayonne, N. J.—All bids received Apr. 6 for repaving and improving a number of streets have been rejected. Noted Mar. 25.

✚Cape May, N. J.—The contract for paving Washington St. from Perry to Franklin St has been awarded to the NEWTON PAVING CO., Trenton, at $20,000.

Elizabeth, N. J.—(Official)—All bids received Apr. 26 for grading, regulating and improving the Morris and Springfield Turnpike were rejected. The work will be readvertised. Noted Apr. 22.

Jersey City, N. J.—(Official)—Bids will be received until 2 p.m., May 13, by the Board of Commissioners for repaving Communipaw Ave. from Morris Canal to West Side Ave. and for improving Wegman Parkway from Ocean Ave. to Van Cleef St., with brick pavement. M. I. Fagen is City Clk.

Morristown, N. J.—The State Road Department has appropriated $61,000 for the improvement of the Morristown-Dover Rd. and the Caldwell-Parsippany Rd., near Pine Brook. The latter improvement is estimated to cost $10,000.

✚Newark, N. J.—(Official)—Contracts have been awarded for paving Chester Ave. to RALPH SANGIOVANNI, $21,685; Elm Rd., to RALPH SANGIOVANNI, $14,836; Hunterdon St., to JACKSON CONTRACTING CO., $13,050; Ferdinand St., to the NEWARK PAVING CO., $3903. Noted Apr. 15 and 29.

Weehawken, N. J.—Bids will be received until 8 p.m., May 10, by the Township Commission, 309 Park Ave., Weehawken, for regulating, grading, curbing, flagging and paving portions of 18th St. Thomas Carroll is Township Clk.

West New York, N. J.—The Town Council plans to extend 11th St. in an easterly direction from Palisade Ave.

Bethlehem, Penn.—Bids will soon be received for paving Prospect Ave. from Hanover St. to Seventh Ave and North Main St. from Garrison to Goepp St.

Milton, Penn.—The City Council contemplates paving North Front St. at an estimated cost of $50,000.

✚Scottdale, Penn.—Contracts have been awarded for paving Pittsburg St. from Vine to the borough line, and Hickory St. from Market St. to Arthur Ave. to LUTHER F. EDWARDS, Greensburg, at $8264 and $9876 respectively.

Sharon Hill, Penn.—Mainwaring & Cummins was low bidder at $18,000 for resurfacing and oiling streets.

Cambridge, Md.—Bids will be received until May 11 by the Commissioners of Dorchester County for constructing about two miles of 9-ft. shell macadam State Aid highway along the Nanticoke River Rd. between Vienna and Holland cross roads.

Easton, Md.—Press reports state that all bids received Apr. 13 for constructing about 1.57 miles of State Aid highway in Talbot County along Tunis Mills Rd. have been rejected. The work will be done by day labor. Noted Apr. 8.

✚Fairfax, Va.—A contract for constructing macadam roads in Fairfax County has been awarded to L. M. JOHNSON.

Taylorsville, N. C.—All bids received Apr. 26 for the sale of $150,000, the proceeds to be used for improving roads, were rejected. Noted Feb. 18 and Apr. 1.

★Greenville, S. C.—(Official)—Bids will be received until 11 a.m., May 14, by the Mayor, City Council and paving Commission for street paving and sidewalks in the City of Greenville. The work includes 70,000 sq.yd. of street paving, 20,000 sq.yd. of sidewalk paving, 25,000 lin.ft. of granite curb, 10,000 lin.ft. concrete curb and gutter combined, storm sewers, catch basins, etc. John B. Marshall is Mayor. C. P. Ballenger is City Engr.

Starke, Fla.—An election will be held May 31 for the purpose of voting on the question of issuing $16,000 in bonds, the proceeds of which will be used for paving streets.

Hazlehurst, Miss.—Bids will be received until June 7 by Copiah County District No. 5 Road Commissioners for constructing gravel roads; $150,000 in bonds were voted for this purpose, at a recent election. Noted Mar. 4.

✚New Orleans, La.—(Official)—The contract for constructing about nine miles of the Abbeville-Kaplan Highway, Vermilion Parish, has been awarded to H. H. SHACKELFORD CO., Bayou Sara, $14,644. Other bids were: J. N. George & Sons, $16,835; Geren & Sealy, New Iberia, $17,565; W. S. Neilson, Bayou Sara, $17,640. Noted Apr. 8.

✚Akron, Ohio—(Official)—The contract for improving the Richfield Rd. has been awarded to E. McSHOFFREY & SON, Akron. Noted Apr. 15.

Bedford, Ohio—(Official)—Bids will be received until noon, June 3, by E. J. Caskey, Clk., Bd. of Trustees, for the sale of $14,000 in bonds, the proceeds to be used for improving various roads leading into Bedford Township.

Bethesda, Ohio—At the election held Apr. 27 the citizens voted in favor of issuing $56,000 in bonds, the proceeds to be used for street paving.

Bexley, Ohio—Bids will be received until noon, May 19, by Chester A. Miller, Clk., for grading, curbing and paving Park View, Columbia, Drexel, Town and Pleasant Ridge Ave.

Bucyrus, Ohio—Bids will be received until May 13 by August Broemel, Clk., Bd. of Pub. Ser., for paving West Mary St. with brick.

Canton, Ohio—The plan to macadamize the Navarre-Justus Rd., the contract for which was recently awarded to Wise Bros., at $23,551, has been abandoned. Noted Apr. 8 and 29.

Cincinnati, Ohio—(Official)—Bids will be received until noon, Apr. 14, by Philip Fosdick, Div. Pub Ser., for improving earth roadways in the First, Third, Fourth and Fifth macadam districts.

Cincinnati, Ohio—(Official)—Bids will be received until noon, May 13, by the Board of Park Commissioners, for improving Bloody Run Parkway from Lincoln Ave. to Chapel St. W. Hodgkinson is Secy. of Bd.

Cincinnati, Ohio—(Official)—Bids will be received until noon, May 10, by Philip Fosdick, Dir. Pub. Ser., for improving Maplewood Ave. from Helen St. to McCormick Pl.

✚Columbus, Ohio—(Official)—Bids were received Apr. 2 by the State Highway Commission and contracts awarded for road construction in various counties as follows: Allen County, Section G, Lima-Ottawa Rd., brick, MICHAEL O'BRIEN, Lima, $10,440; Champaign County, Section K, Troy-Urbana Rd., concrete, KORAH E. KUNKLE, Dayton, $10,443; Cark County,

Section H, Springfield-Washington Rd., waterbound macadam, ROBINS & McDANIEL, Dayton, $23,966; Erie County, Section L, Cleveland-Sandusky Rd., concrete, FRED R. JONES CO., Cleveland, $70,107; Fayette County, Section G, Springfield-Washington Rd., brick, JOHN A. VAN GUNDY, Washington C. H., $2847; Hancock County, Section E, Lima-Sandusky Rd., waterbound macadam, SOUSLEY & BRITTON, Ada., $7874; Huron County, Section K, Plymouth-Norwalk Rd., concrete, G. E SCOTT, Norwalk, $12,400; Lake County, Section H, Cleveland-Buffalo Rd., brick, E. A. FRESHWATER & SONS, Chester, W. Va., $117,990; Montgomery County, Section I, Dayton-Troy Rd., brick, ELSWORTH BRENTLINGER, Dayton, $28,882; Paulding County, Section E, Defiance-Delphos Rd., waterbound macadam, ERIE STONE CO., Van Wert, $8929; Paulding County, Section D, Continental-Paulding Rd., waterbound macadam, R. C. ROACH, Waterville, $6900; Sandusky County, Section F, Fremont-Castalia Rd., waterbound macadam, MODERN CONSTRUCTION CO., Fremont, $16,400; Shelby County, Section B, Piqua-Sidney Rd., waterbound madacam, HAMILTON & BUNGER, Elorado, $16,997; Tuscarawas County, Section K, Wooster-Canal Dover Rd., brick, HOLMES CONSTRUCTION CO., Millersburg, $20,800; Tuscarawas County, Section I, New Comerstown-Urichsville Rd., brick, YOUNT & JACKSON, Dayton, $18,979; Tuscarawas County, Section J, New Philadelphia-West Lafayette Rd., brick, SPRINGER & ROGERS, New Philadelphia, $32,433; Warren County, Section B, Cincinnati-Chillicothe Rd., waterbound macadam, IRONTON TRANSFER & STORAGE CO., Ironton, $16,500; Williams County, Section J, Bryan-Pioneer Rd., waterbound macadam and concrete, KELLY CONSTRUCTION CO., Bryan, $9395. Noted Mar. 25 and Apr. 1.

✚Fremont, Ohio—The contract for paving Wayne St. has been awarded to the MODERN CONSTRUCTION CO., at $13,049. Bonds were sold Apr. 20. Noted Apr. 22.

✚Marion, Ohio—The contract for paving Marion St. from Prospect to Windsor St. has been awarded to the H. P. STREICHER CO., Toledo, at $6500.

Mt. Gilead, Ohio—Bids will be received by O. C. Higgins, Audr., Bd. of County Comrs., until noon, May 28, for macadamizing 3½ miles of road, known as the Marengo Rd. No. 2, in Bennington Township.

Painesville, Ohio—(Official)—Bids will be received until noon, May 20, by the Board of Commissioners of Lake County for the sale of $68,000 in bonds, the proceeds to be used for improving and paving the Cleveland Buffalo Inter County Highway No. 2, in Mentor and Willoughby Townships.

Savannah, Ohio—(Official)—Bids will be received until noon, June 1, by L. O. Hartman, for the sale of $45,000 in bonds, the proceeds to be used for improving five miles of road in Clearcreek Township.

Springfield, Ohio—Bids will be received until noon, May 14, by Charles E. Ashburner, City Mgr., for paving Cassilly St with asphalt.

Swanton, Ohio—Bids will be received until noon, May 10, by W. B. Elwell, Clk., for paving Chestnut St.

Wauseon, Ohio—Bids will be received until May 18 by W. W. Ackerman, Audr. of Fulton County, for improving Franklin, Clinton and Dover Rd., about 4½ miles in all.

Elkhart, Ind.—Press reports state that the Board of Works has voted to pave Third, Jefferson, Sherman and Fifth St. and Indiana Ave.

✚Frankfort, Ind.—The contract for paving East Boone St. has been awarded to N. L. BRANT & CO., Frankfort, at $7265.

Indianapolis, Ind.—Plans are being prepared by J. T. Jeup, City Engr., for resurfacing Maryland St. from Senate to Capitol Ave.

✚Indianapolis, Ind.—The contract for paving 17th Ave. with concrete has been awarded to WILLIAM COIN, Frankfort, at $15,543.

✚Vincennes, Ind.—The contract for paving Shelby St. has been awarded to the PREMIER CONSTRUCTION CO., Indianapolis, at $12,910.

✚Bloomington, Ill.—A contract for paving Olive, Jackson and Warner St. and White Pl. Blvd. with brick has been awarded to I. D. LAIN, at $30,912.

✚Decatur, Ill.—The contract for paving North Water, South Water and East William St. has been awarded to S. A. TUTTLE, Decatur, at $93,562.

✚Urbana, Ill.—Contracts for paving North Market St., Michigan Ave. and North Orchard St. have been awarded to JOHN W. STIPES, Champaign, at $35,000, $10,000 and $5000 respectively.

Fond du Lac, Wis.—Bids will be received until 3 p.m., May 18, by the Board of Public Works for grading and paving Arndt St. from Park Ave. to Packer St.

Lake Geneva, Wis.—(Official)—Bids will be received until 4 p.m., May 22, by Frank A. Briegel, City Clk., for improving Main St. from Cook to Maxwell St.

✚Oconomowoc, Wis.—The contract for paving Third St. with asphalt, has been awarded to the NELSON-WEBER CO.

Forest City, Iowa—(Official)—Bids will be received until 8 p.m., May 12, by G. B. Chryst, Town Clk., for curbing and paving a number of streets and alleys. The work includes 32,000 sq.yd. of street paving, 778 sq.yd. of alley paving, 22,000 lin.ft. of curb and gutter, and 3000 lin.ft. of storm sewers.

✚Neodesha, Kan.—A contract for improving various streets has been awarded to A. W. VAN HAFFTON, Joplin, Ohio, at $28,024. Other bids were: Green & Cullen, Independence, $28,221; Williams Contracting Co., Joplin, Mo., $30,011; Willeston Contracting Co., Chicago, Ill., $29,775; Edwin Geiger, Leavenworth, $29,175. Noted Apr. 22.

Lincoln, Neb.—Press reports state that the State Legislature has passed a bill providing for an appropriation of $35,000 for the state's share for connecting pavements between Lincoln and University Pl.

Blue Springs, Mo.—At the election held Apr. 14 the question of issuing $10,000 in bonds, the proceeds to be used for paving, was defeated. Noted Apr. 8.

Cuero, Tex.—At the election held Apr. 17 the citizens of Precinct No. 2, De Witt County, voted in favor of issuing $50,000 in bonds, the proceeds to be used for road improvements. Noted Apr. 8.

✚Dallas, Tex.—The contract for paving Peabody Ave. from Oakland Ave. to the Texas & Pacific R.R., has been awarded to the STANDARD ENGINEERING CO., at $15,414.

✚Houston, Tex.—The contract for paving Main St. with asphaltic concrete has been awarded to the EUREKA PAVING CO., at $150,000. Noted Mar 25 and Apr. 22.

Marshall, Tex.—(Official)—Bids were received Apr. 6 for constructing approximately 20 miles of graveled and macadam highway in Road District No. 1, as follows: W. T. Montgomery, San Antonio, $59,400; J. H. Howard & Son, $55,633; Roach Manigan Paving Co., Ft. Worth, $53,137; Smith Bros., Crockett, $41,893; E. Key, Jr., Marshall, $59,774; Wetzell & Co., Danville, Ill., $70,543; J. N. George & Sons, $61,546; S. A. Gano, Jackson, Miss., $54,048; O. C. McElrath, Tyler, $60,447; Owens Construction Co., $54,819. Noted Apr. 1.

Sherman, Tex.—At the election held Apr. 17 the citizens voted in favor of issuing $900,000 in bonds, the proceeds of which will be used for constructing 225 miles of gravel roads in Grayson County. Noted Mar. 25.

✚Boise, Idaho—(Official)—Bids were received Apr. 26 by the State Highway Commission for constructing (a) 26 miles of the Idaho-Pacific Highway in Bannock County, (b) eight miles of the Idaho-Pacific Highway in Power County, (c) 24 miles of the Idaho-Pacific Highway in Power County as follows: IDAHO CONSTRUCTION CO., Boise, (a) $13,197, (b) $5597 (awarded contract); Alley & Nelson, Boise, (a) $17,795; F. Crane, Boise, (a) $14,918, (b) $6353, (c) $22,792; Fred Nuffer, (a) $14,772; S. A. Forter, American Falls, (b) $6331, (c) $22,565; C. H. MULL, Twin Falls, (b) $7174, (c) $23,087; Peter Cook, American Falls, (b) $5910; S. C. COMERFORD, Boise, (c) $19,697 (awarded contract).

Lapwai, Idaho—(Official)—All bids received Apr. 20 for macadamizing Main St. and cross streets were rejected by the Town Council. Noted Apr. 15.

Price, Utah—At the election held Apr. 12 the citizens voted in favor of issuing $31,000 in bonds, the proceeds to be used for constructing roads. Bids will be received until May 15 by A. Ballinger, Treas. of Carbon County, for the sale of these bonds. Noted Mar. 18.

Concrete, Wash.—Bids will be received until May 17 by Charles F. Clark, City Clk., for improving Main St. The estimated cost of the work is $12,000. Noted Mar. 25.

✚Edmonds, Wash.—A contract for grading, graveling and paving one-half mile of streets has been awarded to McGUIRE BROS., Seattle, Wash., at $3988. Noted Apr. 15.

Ellensburg, Wash.—Bids will be received until 2 p.m., June 7, by the Commissioners of Kittitas County for grading and graveling Permanent Highway No. 1-A. Moses M. Emerson is County Engr

✚Montesano, Wash.—The contract for constructing the Laidlaw-Cohassett Rd. has been awarded to M. D. HOGAN, Hoquiam, at $5765.

✚Ritzville, Wash.—(Official)—The contract for constructing Permanent Highway No. 3-A has been awarded to A. H. ZANE & CO., Hanford, at $40,817. Noted Apr. 15.

Seattle, Wash.—Bids were received Apr. 20 by the Commissioners of King County for constructing the Redmond-Snoqualmie Highway as follows: S Normile, 608 Kinnear Pl., Seattle, $43,400; R. H. Wheaton, Seattle, $49,484; C. H. Kiehl, Seattle, $49,900; Sloane Bros., Seattle, $49,990; Henry Brice, Seattle, $52,482; Nettleton, Bruce & Eschbach, Seattle, $74,409. Noted Apr. 8.

✚Seattle, Wash—The contract for paving Bellevue Pl. has been awarded to the JAHN CONTRACTING CO.

Seattle, Wash.—Bids will be received until May 17 by the Commissioners of King County for constructing Permanent Highway No. 9-A. Byron Phelps, Clk. of the Comrs.

Spokane, Wash.—Bids will be received until 2 p.m., May 21, by the Board of Commissioners of Spokane County for grading and paving Palouse Permanent Highway No. 12-A.

✚Portland, Ore.—The contract for paving Brooke St. has been awarded to GIEBISCH & JOPLIN, at $13,577.

✚Tillamook, Ore.—The contract for constructing the Sandlake Rd. has been awarded to JEFFREY & BUFTON, Portland, at $5116.

Livermore, Calif.—Bonds for $50,000 have been sold, the proceeds of which will be used for paving. Noted Apr. 1.

Sacramento, Calif.—(Official)—Bids were received Apr. 26 by the State Highway Commission for constructing roads in various counties as follows: (a) Monterey County, Section H, Division 5, Route 2, (b) Sonoma County, Section C, Division 4, Route 14, (d) Monterey County, Section E, Division 5, Route 2, (e) Monterey County, Section A, Division 5, Route 2; C. H. & A. W. Gorrill, Oakland, (a) $127,322; Bates, Borland & Ayer, Oakland, (a) $112,023, (b) $48,857, (c) $28,083; Highway Paving & Construction Co., Palo Alto, (a) $111,431, (d) $51,393, (e) $30,830; L. F. Gerdetz, San Francisco, (a) $103,207, (b) $45,858; James Fitzpatrick, Sacramento, (a) $116,645, (b) $57,594, (c) $38,852, (d) $64,965, (e) $39,074; A. C. McLean Construction Co., San Francisco, (a) $127,874; C. H. Hudson, Los Angeles, (a) $102,565; Hovman & McLaren, Oakland, (a) $94,679, (b) $45,955, (c) $32,668; F. Rolandi, San Francisco, (a) $125,490; Sandercock Transfer Co., San Luis Obispo, (a) $123,683; Mahoney Bros. and Allison & Cole Construction Co., San Francisco, (a) $137,366; Frank L. Smith Co., Eureka, (a) $92,435; Twohy Bros. Co., San Francisco, (a) $98,693, (b) $39,729, (c) $28,552; W. A. Dontanville, Paso Robles, (a) $144,154, (d) $90,809, (e) $39,908; Mesmer & Rice, Los Angeles, (a) $115,770; W. B. Hunt & Sons, Alameda, (a) $112,493, (b) $45,893; Morin Rock Co., San Anselmo, (b) $40,080; Fairbanks & Baechtel, Willets, (b) $55,969; Petersen & Grier, San Francisco, (b) $54,521, (c) $34,236, (e) $34,833; Blanchard Brown Co., San Francisco, (b) $52,620, (c) $40,725; T. M. Burns, Sacramento, (c) $34,928; Taylor & Bertiner, Los Angeles, (c) $32,098; W J. Schmidt, Berkeley, (c) $32,139; Bent Bros., Los Angeles, (d) $71,882 (informal); Lon G. Hare, Salinas, (e) $35,558; T. M. Burns, Sacramento, (e) $30,662. Noted Apr. 15.

Halifax, N. S.—(Official)—We have been advised by F. W. W. Doane, City Engr., that the construction of concrete sidewalks will be done by day labor. Noted Apr. 15.

✚Ottawa, Ont.—(Official)—The contract for paving Bank St. from Echo Drive to Grove St. has been awarded to the OTTAWA CONSTRUCTION CO., Central Chambers, Ottawa. Noted Apr. 15.

INDUSTRIAL WORKS

✚Boston, Mass.—The contract for the construction of a three-story, reinforced-concrete garage at 690 Beacon St. for H. Ross-Maddocks Co., Inc., has been awarded to WILLIAM F. KEARNS, 240 Albany St., Cambridge, Mass. Monks & Johnson, 78 Devonshire St., is Engr.

Boston, Mass.—The Edison Co. will erect a twelve-story building on Chauncey St. for storage battery purposes.

Cambridge, Mass.—Jardine, Hill & Murdock, Arch., 3 West 29th St., New York, N. Y., is receiving bids for the construction of a two-story, 66x130-ft. publishing building for the Harvard Crimson, Cambridge, Mass. It will cost $70,000.

✚Chicopee Falls, Mass.—The Fisk Rubber Co. has awarded the contract to FRED T. LEY & CO., Springfield, Mass., for the construction of a six-story, 30x50-ft., brick and steel addition to its plant. The estimated cost is $15,000.

Dudley, Mass.—Henry Merritt, Webster, Mass., plans to construct a factory to cost $15,000.

Hartford, Conn.—The Whitney Mfg. Co. will construct a four-story, 60x64-ft., reinforced-concrete addition to its factory on Bartholomew Ave. William A. Boring, 32 Broadway, New York, N. Y., is Arch.

Hartford, Conn.—E. Gross & Co., 95 Commerce St., will build a three-story, 30x96 ft. storage building to cost $20,000. Berenson & Goodrich, Pilgarde Bldg., Arch., is receiving bids.

New Britain, Conn.—The North & Judd Co. will construct a six-story addition to its plant, and add two stories to its present building.

New Haven, Conn.—The Winchester Repeating Arms Co. will build a one-story, 42x236-ft., brick and steel building on Argyle St., to be used as a scrap shed. The estimated cost is $30,000. L. W. Robinson is Arch.

✚New London, Conn.—The Standard Oil Co. has awarded the contract to the JOHN J. O'LEARY CO., Passaic, N. J., for the construction of a reinforced-concrete plant and three steel supply tanks at Lewis St. and Eastern Ave. Estimated cost, $75,000.

Waterbury, Conn.—It is reported that the Scoville Mfg. Co., 99 Mill St., plans the construction of a one-story, 250x600-ft. reinforced-concrete factory at Hamilton Ave. and Silver St. H. L. Thompson, 57 North Main St., is Arch.

Albany, N. Y.—The B. Payns Sons Tobacco Co., 915 Broadway, will make additions and alterations to its factory to cost $45,000. D. Stuart Douglas, 100 State St., Arch., is receiving bids.

Buffalo, N. Y.—The Ford Motor Co., Detroit, Mich., will construct a four-story, 100x470 ft. automobile plant, to cost $500,000. Albert Kahn, 60 La Fayette Ave., Detroit, Mich., is Arch.

Le Roy, N. Y.—(Official)—The Le Roy Salt Co. advises us that it will construct a two- or three-story, 68x112-ft. brick and tile plant to cost $40,000. George Schantz, Ellicott Sq., Buffalo, N. Y., is Arch. Noted Apr. 29.

New York, N. Y.—(Borough of Brooklyn)—(Official)—William Higginson, Arch., 21 Park Row (Borough of Manhattan), advises us that plans are being prepared for the construction of a ten-story, 77x258-ft. reinforced-concrete factory for the Fred Gretsch Mfg. Co., 110 South Fourth St. Noted Apr. 29.

New York, N. Y.—(Borough of Manhattan)—(Official)—Elliott Lynch, Arch., 347 Fifth Ave., advises us that construction will begin soon on the construction of a four-story, 75x100-ft. garage for Louis Richard, 110 West End Ave., to cost $50,000. Noted Apr. 29.

✚New York, N. Y.—(Borough of Manhattan)—(Official)—The ANDREWS BUILDING CO., 348 East 54th St., has been awarded the contract for the construction of a machine room, coal vault, and storage room for the Harlem Hospital, 137th St. and Lenox Ave., at $12,666. Noted Apr. 22.

✚New York, N. Y.—(Borough of Brooklyn)—The Gulf Refining Co., Pittsburgh, Penn., has awarded the contract to THOMAS DRYSDALE, 26 Court St., Brooklyn, N. Y., for the construction of a one-story warehouse and garage to cost $20,000. Tooker & Marsh, 101 Park Ave., New York, N. Y., is Arch.

New York, N. Y.—(Borough of Manhattan)—Julius M. Cohen will build a sixteen-story, 98x223-ft. printing plant and factory on 26th St., to cost about $350,000. Schwartz & Gross, 347 Fifth Ave., is Arch.

New York, N. Y.—(Borough of Manhattan)—John J. Radley, 35 West 32nd St., will build a twelve-story, 98x124-ft. printing plant at 229 West 28th St., to cost $300,000. William M. Farrar, 1269 Broadway, is Engr.

✚New York, N. Y.—(Borough of Manhattan)—The contract for the construction of a two-story, 38x77-ft. warehouse for the Manhattan Ry. Co., 165 Broadway, has been awarded to EDWARD CORNING CO., 52 Vanderbilt Ave. The estimated cost is $30,000. G. H. Pegram, 165 Broadway, is Arch. Noted Mar. 11.

New York, N. Y.—(Borough of Queens)—The Courtney Developing Co. will build a concrete factory on Anable St., estimated to cost $100,000.

Asbury Park, N. J.—H. W. Spink will build a two-story garage to cost $15,000. Clarence W. Brazer, Arch., 1133 Broadway, New York, N. Y., is receiving bids.

Jersey City, N. J.—Preliminary plans have been prepared by John T. Rowland, Jr., Arch., 98 Sip Ave., for the construction of a two-story storage, repair shop and garage for the City of Jersey City. The estimated cost is $90,000.

Perth Amboy, N. J.—(Official)—F. G. Ring, Ring-Cleaves-Graham Co., Arch., 280 North Broad St., Elizabeth, N. J., advises us that construction will begin soon on a four-story, 35x76-ft. steel-frame and brick filter house for the Chesebrough Mfg. Co. The estimated cost is $23,000. Noted Apr. 29.

Perth Amboy, N. J.—A. M. Metzendorf will build a two-story grain elevator on New Brunswick Ave.

Plainfield, N. J.—The Sauer Motor Co. will build a $25,000 factory.

Allentown, Penn.—The City of Allentown will build a two-story, 20x100-ft. machine and tool shop, and a two-story, 42x100-ft. office building, to cost $20,000. James A. Schmidt is Clk. of Water Dept. Charles Blazer, 536 Tilghman St., is Arch.

Canonsburg, Penn.—Louis Follet, Gen. Mgr., Standard Tin Plate Co., announces that the company will build an addition to its plant.

Easton, Penn.—Reynolds & Terrell will build a two-story factory to cost $15,000. William M. Michler, Drake Bldg., is Arch.

Harrisburg, Penn.—Bids have been received by Day & Zimmerman, 611 Chestnut St., Philadelphia, Penn., for the construction of six one- and two-story factories for the W. O. Hickok Mfg. Co. The estimated cost is $150,000.

Philadelphia, Penn.—Samuel Sternberger, Tenth and Filbert St., will build a one-story, 80x115-ft. garage. The estimated cost is $25,000. Sauer & Hahn, Arch., 1112 Chestnut St., is receiving bids.

Philadelphia, Penn.—The Estate of J. C. Milne will build a two-story, 59x76-ft. garage, to cost $25,000. William Steele & Sons Co., 1600 Arch St., is Arch.

✚Philadelphia, Penn.—Charles Gans has awarded the contract for the construction of a two-story, 60x125-ft. factory to E. E. HOLLENBACK, 15th and Race St. It will cost $13,000. Noted Apr. 22.

Philadelphia, Penn.—Christian J. Ludwig, 6367 Germantown Ave., will build a four-story, 45x49-ft. warehouse to cost about $12,000. Bids are being received.

✚Philadelphia, Penn.—F. Brecht's Sons, 109 North Orianna St., has awarded the contract to MONAGHAN & LOSSE, 214 South 12th St., for the construction of a two-story, 43x53-ft. factory, to cost $15,000. Arthur O. Forester, Roxboro, is Engr.

✚Pittsburgh, Penn.—P. H. Butler, 1205 Liberty Ave., has awarded the contract for the construction of a seven-story, 60x110-ft., reinforced-concrete warehouse, to GEORGE HOGG CO., Keystone Bldg. The estimated cost is $100,000. Hunting & Davis, Century Bldg., is Arch. Noted Apr. 1.

Washington, Penn.—The Topliff Co. will expend $25,000 on the improvement and extension of its plant.

Newport, Del.—Bids will be received until May 6 by Krebs Pigment & Chemical Co. for the construction of a three-story, 103x223-ft. brick and reinforced-concrete factory.

✚Baltimore, Md.—L. W. Allers & Son, 1138 South Charles St., has awarded the contract for the construction of a two-story warehouse to J. HENRY SMITH, 1426 Light St. The estimated cost is $15,000. J. C. Spedden, 1640 Hanover St., is Arch.

Baltimore, Md.—The Canton Co., Commerce and Water St., will build a four-story warehouse, to cost $50,000. F. S. Simon, care of Canton Co., is Engr.

Washington, D. C.—C. D. Cooley Co., Arch., Century Bldg., Pittsburgh, Penn., will soon receive bids for the construction of a three- and four-story ice cream plant for Chapin Sacks Mfg. Co., First and M St. The estimated cost is $35,000. Noted Sept. 3.

Thomasville, N. C.—It is reported that the Amazon Cotton Mills will build an addition to its plant. J. W. Cannon, Concord, N. C., is interested.

Columbus, Ga.—The West Point Mfg. Co. will construct a cotton mill. George H. Lanier, West Point, is interested.

Gadsden, Ala.—J. H. Arnold, of J. H. Arnold & Co., announces that plans will soon be prepared for the construction of a warehouse.

✚Natchez, Miss.—The TRIUMPH ICE MACHINE CO., 503 Fourth National Bank Bldg., Cincinnati, Ohio, has been awarded the contract for the construction of a cold-storage plant for the Natchez Fish Co. M. R. Carpenter, 2916 Minot St., Cincinnati, Ohio, is Arch. Noted Apr. 29.

De Ridder, La.—G. W. Cline proposes to build a canning factory with an output of 5000 cans per day.

✚Memphis, Tenn.—The Hart Saddlery Co., Second and Union St., has awarded the contract for the construction of a two-story warehouse to A. WHIFFEN, 1364 Ridgeway Ave. The estimated cost is $21,000.

Canton, Ohio—The Globe Motor Co., 408 Cherry St., will build a three-story, 60x200-ft. garage and salesroom, estimated to cost $50,000. E. J. Landor, 634 Renkert Bldg., is Arch.

Cleveland, Ohio—The Van Dorn Iron Works Co., 2685 East 79th St., will build a one-story, 85x180-ft. factory to cost $12,000.

✚Cleveland, Ohio—C. E. Taft Co., 1676 Center Ave., has awarded the contract for rebuilding its three-story factory to H. G. SLATMYER & SONS CONSTRUCTION CO., 203 Lakeside Ave. It will cost $12,000.

✚Cleveland, Ohio—The W. S. Ferguson Co., Arch., 1900 Euclid Bldg., has awarded the contract to the WALTHER ENGINEERING & CONSTRUCTION CO., 1941 East 66th St., for the construction of a three-story, 100x152-ft. auto sales and garage building for Mrs. Amanda Corlett, 1020 Rockefeller Bldg., to cost $11,000. Noted Apr. 29.

Cleveland, Ohio—The Byrant Heater Mfg. Co., 978 East 64th St., Cleveland, has had plans prepared for the construction of a three-story factory at 952 East 72d St., to cost $50,000. Fox & Osborne, 1602 Woodward Ave., Cleveland, is Arch.

✚Cleveland, Ohio—The contract for the construction of a four-story, 100x165-ft. factory for the Brown Carriage & Auto Co. has been awarded to the SAMUEL AUSTIN & SON CO., 14,230 Euclid Ave.

Cuyahoga Falls, Ohio—The Falls Rubber Co. will build a three-story, 80x200-ft. factory. Ernest McGeorge, 853 Leader-News Bldg., is Engr.

✚Lakewood, Ohio—The contract for the construction of a one-story, 155x175-ft. addition to the plant of the Cleveland Welding & Mfg. Co., 2129 West 117th St., has been awarded to the HUNKIN-CONKEY CONSTRUCTION CO., 321 Cuyahoga Bldg.

✚Lakewood, Ohio—The contract for the construction of a one-story, 50x250-ft. factory at Madison Ave. and West 160th St., Lakewood, Ohio, for the Parish & Bingham Co. has been awarded to the W. I. THOMPSON & SON CO., 6110 Euclid Ave., Cleveland.

Toledo, Ohio—The Toledo Cooker Co. West Bancroft St., will construct a two-story, 72x144-ft. factory addition, to cost $30,000. Mills, Rhines, Bellman & Nordorff, 1234 Ohio Bldg., is Arch.

Toledo, Ohio—The International Harvester Co. will build a five-story, 130x140-ft. warehouse. Devore & McGormley, 304 Nasby Bldg., is Arch.

✚Yorkville, Ohio—The Wheeling Steel & Iron Co., Wheeling, W. Va., has awarded the contract for the construction of a $25,000 addition to its plant to the FORT PITT BRIDGE CO., House Bldg., Pittsburgh, Penn.

✚Battle Creek, Mich.—S. B. MORGAN, 5 Morgan Bldg., has been awarded the contract for the construction of a two-story, 47x66-ft. building for the News & Enquirer Publishing Co., at an estimated cost of $21,000. G. C. MacComber, 712 Post Bldg., is Arch.

Detroit, Mich.—J. L. Hudson Co., Woodward Ave., will construct a six-story, 50x200-ft. warehouse. Smith, Hinchman & Grylls, 710 Washington Arcade, is Arch.

Detroit, Mich.—The Packard Motor Car Co. plans the construction of a three-story, 52x113-ft. addition to its plant on Concord Ave., to cost $10,000.

Detroit, Mich.—Scott Bros. Electric Co., 34 Macomb St., will build a four-story, 25x115-ft. factory to cost $12,000. Pollmar & Ropes, 602 Sun Bldg., is Arch.

Saginaw, Mich.—Bids will be received until May 8 by Allen & Curtis, Forester Bldg., for the construction of a two-story, 40x150-ft. printing building for the Valley Printing Co., Franklin St.

Chicago, Ill.—The Peoples Crushed Stone Co., 1733 First National Bank Bldg., has obtained a permit, and will build a stone-crushing plant at 2647 Montrose Ave., to cost $20,000.

Chicago, Ill.—The Link Belt Co., 39th and Stewart Ave. will build an 80x180-ft. warehouse to cost $60,000. Charles A. Urbanek, 35 South Dearborn St., is Arch.

Chicago, Ill.—(Official)—The Western Plumbing Supply Co., 117 North Desplaines St., advises us that work will begin about July 1 on the construction of a two-story, 120x125-ft. warehouse and office building to cost $60,000. Noted Apr. 29.

Chicago, Ill.—The Knight Light Co. will build a six-story factory at 341 West Chicago Ave., to cost $100,000. C. A. Eckstorm, 720 North Franklin St., is Arch.

Milwaukee, Wis.—The Ford Automobile Co., Detroit, Mich., plans the construction of a $500,000 automobile factory.

✚Racine, Wis.—CHRIS. BONGARD, 935 La Salle St., has been awarded the contract for the construction of a three-story, 30x62-ft. warehouse, for A. Matson, 1747 Northwestern Ave., to cost approximately $25,000. C. H. Tharinger, 2324 State St., Milwaukee, Wis., is Arch. Noted Nov. 19.

Davenport, Iowa—Clausen & Kruse, Arch., advises us that work will start about June 1 on the construction of a five-story, 93x177-ft. reinforced-concrete factory for the Crescent Macaroni & Cracker Co. The estimated cost is $80,000. Noted Apr. 29.

Ft. Madison, Iowa—The Perfection Tire & Rubber Co., Chicago, Ill., will build a factory to cost about $90,000.

Duluth, Minn.—(Official)—W. T. Bray, Arch., advises us that construction will soon begin on a three-story, 50x115-ft. reinforced-concrete garage for W. M. Prindler & Co., to cost $23,000. Noted Apr. 29.

✚Mankato, Minn.—The Mankato Daily Free Press, care Frank Hunt, Free Press Bldg., has awarded the contract to J. B. NELSON CONSTRUCTION CO., 503 Belgrade St., for the construction of a four-story, 57x65-ft. printing building. H. C. Gerloch, I. O. O. F. Bldg., is Arch.

Mankato, Minn.—The Mayer Bros. Co. will build an 80x400-ft., reinforced-concrete factory. The Kenwood Bridge Co., 38 South Dearborn St., Chicago, Ill., is Arch.

Minneapolis, Minn.—(Official)—Bertrand & Chamberlin, 616 Northwest Bank Bldg., advises us that construction will soon begin on the five-story, 100x209-ft. reinforced-concrete warehouse for the W. L. Harris Realty Co., to cost $200,000. Noted Apr. 29.

Minneapolis, Minn.—(Official)—The Wheeling Corrugating Co., Wheeling, W. Va., advises us that it will not build a plant at University and Washington Ave. this year. Noted Apr. 22.

Lincoln, Neb.—(Official)—We are advised that the proposed construction of a six-story, 62x86-ft. reinforced-concrete storage warehouse for the Carter Transfer Co., has been indefinitely postponed. Jesse B. Miller, 324 Little Bldg., is Arch. The estimated cost is $50,000. Noted Apr. 29.

✚Omaha, Neb.—The Gordon Fireproof Warehouse & Van Co., 219 North 11th St., has awarded the contract to the GRANT-PARSONS CONSTRUCTION CO., 600 Barker Bank Bldg., for the construction of a one-story, 120x136-ft. warehouse, to cost $13,000.

Independence, Mo.—The Utah Mormon Church, S. Bennow, Pres., will build a one-story, 60x80-ft., printing and publishing plant, to cost $15,000. J. Oliver Hogg, 946 New York Life Bldg., Kansas City, Mo., is Arch.

St. Louis, Mo.—The Laclede Gas Light Co. will build a benzol plant on Catalan St., to cost $75,000.

St. Louis, Mo.—The Linde Air Products Co., 42nd St. Bldg., New York, N. Y., will construct a $100,000 plant on Forest Park Blvd.

St. Louis, Mo.—The George A. Helein Cooperage Co., 14th St., will build a six-story factory on 15th St.

Spokane, Wash.—(Official)—W. P. Fuller & Co. advises us that it has not been definitely decided when construction will begin on its warehouse. Noted Apr. 22.

Portland, Ore.—The Marshall-Wells Hardware Co. will construct four additional stories to its present warehouse at 14th, 15th, Kearney and Lovejoy St. Estimated cost, $70,000. E. B. McNaughton is Arch.

✚Fresno, Calif.—The contract for the construction of a garage at Mono and K St., for J. C. Phelan, has been awarded to TREWITT & SHIELDS, at $41,000.

Melfort, Sask.—The Canada West Grain Co. will construct four grain elevators with a capacity of 30,000 bu. each.

Montreal, Que.—Wilson, Paterson & Co., 42 Sacrament St., will rebuild its warehouse. The estimated cost is $75,000.

FEDERAL GOVERNMENT WORK

Building—Ft. Williams, Maine—(Cape Cottage post office)—Bids will be received until 1:30 p.m., May 17, by the Constructing Quartermaster, Ft. Williams, for constructing addition to the post exchange and gymnasium at Ft. McKinley, Maine.

★Scow and Dredge—New York, N. Y.—Bids will be received until noon, May 28, by Col. W. M. Black, U. S. Engineer Office, Army Bldg., New York, for constructing a drill scow and dredge, "General Gillespie."

Remodeling Post Office—Reading, Penn.—Bids will be received until 3 p.m., June 8, by James A. Wetmore, Superv. Arch., Treasury Dept., Washington, D. C., for making extensions and remodeling the U. S. post office at Reading.

✚Storehouses—Indian Head, Md.—The contract has been awarded to JAMES N. NOLAN CONSTRUCTION CO., Munsey Bldg., Washington, D. C., at $3772, for constructing two cotton storehouses at the Naval Torpedo Station, Indian Head. Bids were opened Apr. 17. Noted Apr. 1.

Grading—Washington, D. C.—Bids were received Apr. 28 by the Commissioners of the District of Columbia for grading the south approach to the Anacostia Bridge as follows: William F. Cush, $0.48 per cu.yd.; George Hyman, $0.39; and Harper & Voigt, $0.55.

Road Repair—Washington, D. C.—Bids will be received until 11 a.m., May 15, by H. R. Stanford, Ch. Bureau of Yards and Docks, Navy Dept., Washington, D. C., for repair of roads at the U. S. Naval Medical School, Washington.

★Sewers—Washington, D. C.—Bids will be received until 2 p.m., May 12, by the District Commissioners, District Bldg., for constructing trunk sewers. Information may be had on application to Chief Clerk, Engineering Dept., District Bldg.

✚Sewers—Washington, D. C.—The contract for the construction of sewers in the District of Columbia has been awarded to GEORGE HYMAN, Washington, as follows: Ordinary excavation, $0.30; concrete masonry "E", $8.75; vitrified brick masonry, $20; sewer brick masonry, $13. Noted Apr. 15 and 29.

Building—Front Royal, Va.—Bids will be received until 2 p.m., May 24, by the Constructing Quartermaster, Remount Depot, Front Royal, for constructing a non commissioned officers building, civilian employees quarters, ward building, stables, sheds and an oil house.

✚Floating Crane—Norfolk, Va.—The contract has been awarded to the WELLMAN-SEAVER-MORGAN CO., Cleveland, Ohio, at $350,000, for a floating crane at the Norfolk Navy Yard. Noted Feb. 11 and Mar. 4.

Shipbuilding Cranes—Norfolk, Va.—Plans and specifications are in course of preparation at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing two shipbuilding cranes for the Norfolk Navy Yard. These cranes are under the same specifications as the five purchased in December, 1914, from the McMyler Interstate Engineering Co., at a cost of $47,500.

★Water Turbine—Wheeling, W. Va.—Bids will be received until 11 a.m., June 2, by Maj. T. H. Jackson, U. S. Engineer Office, Wheeling, for water turbines, air compressors, valves, jacks, and gate winches for Dams Nos. 15 and 19, Ohio River.

Post Office—Pensacola, Fla.—Bids were received as follows Apr. 29 by the Acting Supervising Architect, Treasury Dept., Washington, D. C., for repairs and betterments at the Pensacola post office: Grohne Decorating Co., Joliet, Ill., $24,000; B. A. Davis, Pensacola, Fla., $23,898; Jett-Muths Construction Co., Mobile, Ala., $27,527; C. H. Turner Co., Pensacola, Fla., $23,299; Algernon Blair, Montgomery, Ala., $23,813; S. F. Fulghum & Co., Pensacola, Fla., $25,787. Noted Mar. 25.

★Booms, Masts, Etc.—Memphis, Tenn.—Bids will be received until 11 a.m., May 21, by Maj. E. M. Markham, Mississippi River Commission, Custom House, Memphis, for booms, masts, stiff legs, hoisting engines, concrete mixers and clam shell buckets.

★Levee Work—Memphis, Tenn.—Bids will be received until 11 a.m., May 26, by Maj. E. M. Markham, Mississippi River Commission, 1st and 2d District, Custom House, Memphis, for constructing about 4,500,000 cu.yd. of levee work in the Upper and Lower St. Francis, and White River Levee Districts.

✚★Cement—Louisville, Ky.—The contract for furnishing American portland cement for dam No. 43, Ohio River, has been awarded to the COSMOS PORTLAND CEMENT CO., Louisville, at $55,080. Noted Mar. 25.

✚Steel Lock Gates—Cincinnati, Ohio—Bids were received Apr. 7 for gates at Dam No. 29, Ohio River as follows: Union Foundry & Machine Co., West Carson St., Pittsburgh, Penn., $27,421; Whitehead & Kales Iron Works Beecher Ave. and M. C. R.R., Detroit, Mich., $39,669; J. & J. B. Milholland Co., 714 Fifth Ave., Pittsburgh, Penn., $27,121; C. A. Turner, Inc., Pittsburgh, Penn., $26,313; Independent Bridge Co., Beaver Ave., Pittsburgh, Penn., $26,491; Penn Bridge Co., Beaver Falls, Penn., $28,888; Alliance Structural Co., Alliance, Ohio, $26,830; Steacy-Schmidt Mfg. Co., York, Penn., $29,377; Milwaukee Bridge Co., 1400 34th St., Milwaukee, Wis., $33,232; American Bridge Co., Union Trust Bldg., Cincinnati, Ohio, $27,537; Lupfer & Remick, 592 Ellicott Sq. Buffalo, N. Y., $30,282. Noted Apr. 8.

★Earth Excavation—Detroit, Mich.—Bids will be received until noon, June 15, by Lieut.-Col. Mason M. Patrick, Federal Bldg., Detroit, for excavation of earth and rock, U. S. Power plant tail race, St. Marys River, Mich.

River Widening—Milwaukee, Wis.—See item under "Miscellaneous."

Post Office—Ardmore, Okla.—Bids were received as follows, Apr. 28 for the construction of a post office at Ardmore, (a) using light-colored Oklahoma limestone for exterior stonework except where granite is required, (c) using sandstone except where granite is required: Kreipke-Schafer Construction Co., El Reno, Okla., a) $127,200; (b) $127,200; Gallahan-Mandl Co., Chicago, Ill., (a) $137,577, (b) $137,577, (c) $132,577; George W. Stiles Construction Co., Chicago, Ill., (b) $120,200; Thomas W. Cissel, Wooster, Ohio, (b) $129,000, (c) $137,000; M. Yeager & Sons, Danville, Ill., (a) $123,968, (b) $121,968, (c) $126,968; Barnes Bros., Logansport, Ind., (b) $129,500; W. D. Lovell, Minneapolis, Minn., (b) $135,400; Dieter & Wenzel Construction Co., Wichita, Kan., (a) $121,500, (b) $121,500; George A. Shaul, Seneca, Kan., (b) $124,512; King Lumber Co., Charlottesville, Va., (a) $138,000, (b) $128,000, (c) $138,000; Kremer & Voirol Construction Co., St. Louis, Mo., (b) $132,829; Campbell Building Co., Salt Lake City, Utah., (a) $127,500, (b) $133,000; Hiram Lloyd Building & Construction Co., St. Louis, Mo., (b) $126,576; W. H. Fissell & Co., New York, N. Y., (b) $122,000; (c) $127,000; Frank H. Latimer & Co., Kansas City, Mo., (b) $140,241; Potters Lumber Co., East Liverpool, Ohio, (a) $130,495, (b) $129,495, (c) $133,000. Noted Mar. 25.

Torpedo Storehouse—Keyport, Wash.—Bids will be received until 11 a.m., May 29, by H. R. Stanford, Ch. Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing a fireproof torpedo storehouse at the Naval Torpedo station, Keyport.

✚Post Office—Pendleton, Ore.—The contract for the construction of post office at Pendleton has been awarded to JAMES S. WINTERS, Couch Bldg., Portland, Ore., at $99,537. Noted Jan. 21 and Apr. 1.

Vessel—San Francisco, Calif.—Bids were received as follows Apr. 27, by the Light House Bureau, Department of Commerce, Washington, D. C., for the construction of one 1750-ton light house vessel, the "Cedar": Gas Engine & Power Co. and Charles L. Seabury Co., Morris Heights, N. Y., $276,000, alternate, $274,000. Seattle Construction & Dry Dock Co., Seattle, Wash., $296,500, alternates, $293,560, $290,000, $287,700. Navy Yard, Portsmouth, N. H., estimate, $203,777, machinery, $76,517, Navy Yard not to be bound by any provisions as to liquidated damages, etc. Craig Ship Building Co., Long Beach, Calif., $234,000, alternates, $231,200; Mare Island Navy Yard, (estimate), $249,386, alternate, $246,228; Bremerton (Puget Sound) Navy Yard, $248,579, alternate, $245,216; Anderson Steamboat Co., Seattle, Wash., $258,300, alternate, $251,760; Union Iron Works, San Francisco, Calif., $285,250, alternate, $282,070; United Engineering Works, San Francisco, Calif., $279,538. Noted Mar. 25.

Electric-Light Fixtures—Pearl Harbor, Hawaii—Bids will be received until 11 a.m., June 5, by H. R. Stanford, Ch. Bureau of Yards and Docks, Navy Dept., Washington, D. C., for electric-light fixtures for the naval hospital, Pearl Harbor.

MISCELLANEOUS

Dry Dock and Repair Plant—Portland, Maine—A large dry dock and ship repair plant is proposed by the Chamber of Commerce.

Riprap—Boston, Mass.—Bids will be received until May 12 by the Harbor and Land Commissioners for placing 800 tons of riprap in Hadley and 1350 tons in Hatfield. William F. Williams, State House, is Ch. Engr.

✚Grand Stand—Boston, Mass.—According to press reports, the contract for constructing the grand stand for the Boston National League Baseball Club has been awarded to the JAMES E. GAFFNEY CONTRACTING CO., 961 Commonwealth Ave. Noted Feb. 18.

Ducts—Boston, Mass.—Bids will be received until May 11 by the Fire Department, for laying about 3000 lin.ft. of ducts. John Grady is Comr.

★Concrete Reservoir—Salem, Mass.—Bids will be received until 10 a.m., May 17, by P. J. Kelley, Dir. of Pub. Wks., for constructing a covered concrete reservoir with a capacity of 10,000,000 gal.

Harbor Improvements—Providence, R. I.—According to press reports, the State Harbor Commission plans to develop and improve the harbor; also the entrance to the Seekonk River. O. Perry Searle is Engr.

Dock Walls—Albany, N. Y.—It is reported that the City Council considers issuing about $50,000 in bonds for building dock walls along the river front and other river improvements.

★Bridges—Canton, N. Y.—(Official)—Bids will be received until 2 p.m., May 28, by the Town Board of the Town of Canton for the construction of the Morley Bridge over the Grasse River at Morley, and for the construction of a bridge over Granis Brook, on the Canton-Pierrepont Rd. H. M. Barber is Town Clk. A. H. Williams is Town Supt.

Athletic Field—Clinton, N. Y.—The Trustees of Hamilton College are considering the building of an athletic field to cost about $25,000. Joseph Rudd, Clinton, is Chn. of the Com. in charge.

Piers—New York, N. Y.—(Borough of Brooklyn)—According to press report the Department of Docks and Ferries will soon call for bids for the construction of three large piers in South Brooklyn. The total cost is estimated at $1,300,000. R. A. C. Smith is Comr.

Plaza—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 3 p.m., May 13, by Cabot Ward, Pres., Park Bd., Municipal Bldg., for the reconstruction of the Prospect Park Plaza at Ninth and 15th St.

Trailers—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by J. T. Fetherston, Comr., Dept. of Street Cleaning, Municipal Bldg., for furnishing and delivering 11 trailers.

✚Lumber—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing and delivering 1,575,455 cu.ft. of lumber has been awarded by the Department of Docks and Ferries to the HIRSCH LUMBER CO., 26 Beaver St., New York, at $23.93 per 1000 ft. b.m. Noted Apr. 29.

Lumber—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Cabot Ward, Pres., Park Bd., Municipal Bldg., until 3 p.m., May 13, for furnishing and delivering lumber.

✚Track Equipment—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for furnishing equipment for the westerly tracks of the upper deck of the Manhattan Bridge has been awarded to the VULCAN RAIL & CONSTRUCTION CO., 35 Meserole St. (Borough of Brooklyn), at $148,393. Noted Apr. 8 and 22.

Motor Trucks—New York, N. Y.—(Borough of Manhattan)—(Official)—The following are the bids received for furnishing and delivering 12 motor driven city service hook and ladder trucks: Seagrave Co., $56,160; Robinson Fire Apparatus Mfg. Co., $64,800; International Motor Co., West End Ave. and 64th St., $52,152; James Boyd & Bro. Inc., $57,175; American La France Fire Engine Co., $53,328. Noted Apr. 22.

Dredging—Atlantic City, N. J.—Bids will be received until May 13 by Board of Commissioners for dredging portions of Clam Creek and Delta Basin. The work calls for dredging about 103,800 cu.yd. J. W. Hackney is City Engr.

Motor Fire Apparatus—Camden, N. J.—Bids will be received by William D. Brown, City Clk., until May 17 for furnishing aërial trucks, city service trucks, pumping engines and combination wagons to the Fire Department. Harry R. Read is Chn. of the Fire Com. Noted Feb. 4 and 18.

Fire Station—Edgewater, N. J.—The citizens on Apr. 27 voted to issue $38,000 in bonds for a fire-station.

✚Boardwalk—Sea Isle City, N. J.—It is reported that the contract for building 4200 lin.ft. of boardwalk along the beach front has been awarded to CLARENCE PFIEFFER, at $12,690.

Wall—Singac, N. J.—(Official)—Bids will be received until 2 p.m., May 13, by the Board of Commissioners of Jersey City for constructing a retaining wall and placing back fill at side of conduit at Singac.

Fire Station—Trenton, N. J.—The White Horse Fire Co. will build a new fire station in the White Horse section.

Police and Fire Signaling Apparatus—Scranton, Penn.—All bids received for installing fire alarm and police signaling apparatus in the Central City fire limits have been rejected. F. K. Derby is Dir. of Pub. Safety. Noted Apr. 15.

✚Shafts—Fairmont, Va.—The Consolidated Coal Co. has awarded a contract to the DRAVO CONTRACTING CO., Pittsburgh, Penn., for a shaft at the Carolina mine on Helena run, near Farmington, and to H. F. STARK, Greensburg, Penn., for shaft at Ida May mines. Each shaft will cost about $50,000, and will be 500 ft. deep, lined with concrete.

✚Wall—Richmond, Va.—The contract for constructing a concrete wall on Shockee Creek, below Second and Fifth St. has been awarded to L. HANKINS, at $54,671. Charles E. Bolling is City Engr.

Drainage—Arcadia, Fla.—The Arcadia Drainage District, embracing 5500 acres of land, has been formed. Surveys have been made by C. L. Cravens, Engr., Parker Bldg., Arcadia, and a report will be made to the Board of Commissioners of De Sota County.

Drainage—Bartow, Fla.—Bids will be received until June 1 by the Peace Creek Drainage District, 77 Main St., for constructing about 142 miles of drainage ditches. C. G. Elliott, McLachlen Bldg., Washington, D. C., is Ch. Engr. Noted Feb. 25.

Sheds—Jacksonville, Fla.—According to press reports, bids will be received by Capt. F. W. Bruce, Engr., Port Commission for the construction of sheds on the docks. The sheds will be 73 ft. wide and 1000 ft. long.

Drainage—Leesburg, Fla.—It is reported that Hiram Elroy, Tampa, is making surveys for the purpose of draining 7000 acres of swamp land in Lake, Pasco, Sumter and Hernando Counties.

Drainage—Taft, Fla.—R. H. Ludlum, Kissimmee, Fla., has made final surveys for the proposed drainage work contemplated by the Taft Drainage Co. J. F. Harrington is Secy.

Sea Wall—West Palm Beach, Fla.—Bids will be received by A. N. Lopez, City Clk., until noon, May 7, for the construction of a sea wall. The work requires about 1350 cu.yd. of reinforced concrete and 99,000 cu.yd. of fill. The J. B. McCrary Co., Atlanta, Ga., is Engr.

Levee Work—Clarksdale, Miss.—Bids will be received until May 12 by the Levee Board for laying about 138,000 sq.yd. of concrete 3 in. thick, on the river side slope of the levee. T. G. Dabney, Clarksdale, is Ch. Engr.

✚Levee Work—Clarksdale, Miss.—It is reported that contracts for levee enlargement work in Tunica County have been awarded to MARTIN JENNINGS & BRGS.; ROACH STANSELL & LOWRENCE; and BONDURANT, CLARKE & CO. The work involves about 9,000,000 cu.yd.

Drainage—Plain Dealing, La.—The following are the bids received for drainage in Postem and Phelps Lake, Bossier Parish. The work requires the excavation of about 72,000 cu.yd. of sand and clay; Hall Nattin, Shreveport, 17.4c. per cu.yd.: J. M. Montgomery, Shreveport, 18.7c.; George Epple, Shreveport, 22.25c.; Nergman Gregory, Texarkana, Ark., 22.5c. F. B. Grevenberg Jr., Continental Bank Bldg., Shreveport, is Engr. Noted Apr. 22.

✚**Drainage**—Union City, Tenn.—The contract for constructing about 1,564,300 cu.yd. levee work with floating dredge, about 631,700 cu.yd. of ditch work, three reinforced-concrete sluiceways, also clearing about 500 acres, as right-of-way, has been awarded to the SWAMP DREDGE CO., Tupelo, Miss., at $208,000. Noted Apr. 1.

Motor Fire Apparatus—Bellaire, Ohio—The City Council has decided to call an election to vote on the question of issuing $16,500 in bonds for the purchase of five trucks for the fire department. G. N. Alther is City Clk.

Sprinklers—Cincinnati, Ohio—Bids will be received until noon, May 12, by Ernest Von Vargen, City Pur. Agt., City Hall, for furnishing four street sprinklers.

Retaining Walls and River Improvements—Tiffin, Ohio—The lowest bid submitted for deepening, widening and straightening the Sandusky River was that of Lewis Jones, Fostoria, at $59,767. Noted Mar. 25.

✚**Dredging**—Hartford City, Ind.—It is reported that the contract for dredging Lick Creek has been awarded to CHARLES CLAMME, Hartford City, at $27,095. Noted Mar. 25.

Flood Protection—Indianapolis, Ind.—The lowest bid submitted for flood protection along the west bank of the White River was that of the Cleary White Construction Co., Chicago, Ill., at $458,000. B. J. T. Jeup is City Engr. Noted Mar. 18.

Dredging—Princeton, Ind.—The Commissioners of Gibson County contemplate dredging and straightening the channel of the Patoka River. W. T. Roberts is County Audr.

Building Supplies—Dowagiac, Mich.—(Official)—The Byers Bros. Construction Co., Kalamazoo, Mich., will soon purchase the following supplies to be used in the construction of the buildings for the Rudy Furnace Co.: 200,000 ft. yellow pine lumber; 2000 bbl. cement in bags; 300,000 common brick; 20,000 5x8x12-in. back up tile; 125 tons structural steel; small quantity reinforcing steel; 10,000 sq.ft. steel sash; ¼-in. wire glass for sash; metal sash putty; electrical supplies; fire doors; sheet metal; millwork and trim; paint; four tons cement floor hardener.

Motor Fire Apparatus, Etc.—Champaign, Ill.—The City has voted to issue $22,000 in bonds for the purchase of a gasoline pump, an aërial truck and additional hose for the fire department; also an auto patrol for the police department. Noted Apr. 8.

✚**Steamer**—Manitowoc, Wis.—The contract for the construction of a freight steamer to cost about $300,000 for the Goodrich Transit Co. has been awarded to the MANITOWOC SHIPBUILDING CO.

River Widening—Milwaukee, Wis.—Work will be commenced next fall on the widening of the Milwaukee River, in connection with new harbor work. It will include dredging an area of 56,200 sq.ft., and building 600 ft. of pile revetment with reinforced-concrete superstructure. The dredging will be let by the U. S. Government, and the revetment by the city. George Stall is City Engr.

Dredging—Estherville, Iowa—Bids will be received until May 15 by the Fifth Ward Drainage District No. 1 for dredging about 25 miles of gravity drainage canals. The work involves about 300,000 cu.yd. Ellis Hoffpaur is Pres.

Drainage Bonds—Estherville, Iowa—Bids will be received by the Fifth Ward Drainage District No. 1, until May 15, for the purchase of $38,000 in drainage bonds.

✚**Ditch**—Foley, Minn.—The contract for the construction of Ditch No. 13 has been awarded to TALBERG & CHEELEY, at 13c. per cu.yd. Noted Apr. 8.

✚**Ditch**—Slayton, Minn.—The contract for the construction of judicial ditch No. 6 has been awarded to JOHN CHRISTENSON & CO., Lakefield, at $14,895. Noted Apr. 15.

Drainage—Donna, Tex.—Bids will be received until May 17 by George B. Meriwether, Chn., Drainage District No. 1, for constructing ditch and levee and improving the water course known as Cibolo. The work involves about 90,000 cu.yd. of dirt work. C. S. Clark, Donna, is Engr. of the Dist.

Pier—Galveston, Tex.—According to press reports bids will be received until May 10 by the Galveston Wharf Co. for the construction of a pier to cost about $300,000. Ford, Bacon & Davis, New Orleans, La., is Engr.

Levee—Waxahachie, Tex.—Bids will be received until May 10 by T. H. Harbin, Waxahachie, for constructing a levee on Chambers Creek.

Dam—Ogden, Utah—According to press reports, bids will soon be received by the Weber & Davies Counties Canal Co., for the construction of a dam to cost about $150,000. J. C. Nye is Secy.

Ferry Improvements—Seattle, Wash.—Bids will be received by C. E. Remsberg, Secy., Port Comn., until 1:30 p.m., May 7, for the reconstruction of the West Seattle ferry landing. Noted Feb. 11.

✚**Concrete Work**—Spokane, Wash.—The contract for concrete work at stock yards of the Union Stock Yards Co. is reported to have been awarded to C. M. PAYNE, Spokane, at about $15,000.

✚**Dike**—Willapa, Wash.—The contract for constructing a dike in the Palix River section of Willapa Harbor has been awarded to the COWLITZ RIVER BRIDGE CO., Yeon Bldg., Portland, Ore., at about $60,000.

✚**Fill**—Modesto, Calif.—The Trustees of the Modesto Irrigation District have awarded a contract for earth fills to the HEALY-TIBBITTS CONSTRUCTION CO., San Francisco, Calif., at $71,065.

Coal Bunkers—Oakland, Calif.—The Western Fuel Co., San Francisco, will erect coal bunkers on the Oakland estuary at an estimated cost of $150,000. D. C. Norcross, 430 California St., San Francisco, is Secy.

Pier—San Diego, Calif.—Press reports state that a 400-ft. ocean pier will be built at La Jolla for the use of the state biological station. G. F. McEwen is Station Hydrographer.

✚**Cement**—Montreal, Que.—According to press reports the Dominion Government has awarded the CANADA CEMENT CO. a contract for furnishing 2,500,000 bbl. of cement. The cement will be used in the Welland Canal extensions.

Dam Protection—Valleyfield, Que.—Bids will be received until May 7 by the Department of Railways and Canals, Ottawa, Ont., for protection work to the Valleyfield government dam. J. W. Pugsley is Secy.

Drainage—Toronto, Ont.—According to press reports the plans for drainage system in North Toronto, including sewage disposal work, have been abandoned for the present. The estimated cost of this work is $4,160,000.

✚**Tunnel Work**—Glacier, B. C.—The contract for lining about five miles of the Canadian Pacific R.R. tunnel has been awarded to the BATES & ROGERS CONSTRUCTION CO., Vancouver, at about $300,000.

Tramway—Revelstoke, B. C.—The Lanark Mining Co. will erect a 7000-ft. tramway at its mine to cost $12,000. W. B. Dornberg and L. M. Dornberg, Spokane, are interested.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous"

Ashburnham, Mass.—The Ashburnham House dormitory for boys at Cushing Academy will be rebuilt at a cost of about $50,000.

Boston, Mass.—The Chapman Real Estate Trust Co. has purchased the building at 69 Beacon St. and will demolish same and construct a four-story, brick and stone apartment house to cost $75,000.

✚**Boston, Mass.**—The contract for the alterations to the building at 14 Winter St. for L. D. Towle, 15 State St., has been awarded to GEORGE B. H. MACOMBER, 44 Bromfield St. The estimated cost is $50,000. A. H. Bowditch, 44 Bromfield St., is Arch.

✚**Springfield, Mass.**—The contract for the construction of the Third National Bank Bldg., Main St. and Harrison Ave., has been awarded to HOGGSON BROS., 7 East 44th St. Starrett & Van Vleck, Everett Bldg., New York, N. Y., and E. Hammett Seabury, Springfield, Mass., are Archs.

✚**Watertown, Mass.**—Charles M. Abbott, Chn. of the Bldg. Comn., has awarded the contract for the construction of a three-story, 75x110-ft. school to the WILLIAM CRANE CO., Vassar St., Cambridge, Mass. The estimated cost is $75,000. Hoyt & Bixby, 8 Beacon St., Boston, Mass., is Arch.

Worcester, Mass.—Dykeman & Murray, Arch., 27 School St., Boston, Mass., has prepared plans for the construction of a six-story, 100x106-ft., brick and terra cotta apartment building for the Central City Realty Co. The estimated cost is $300,000.

Providence, R. I.—The State Board of Control and Supply, W. A. Schofield, Chn., contemplates the following expenditures: $201,500 for the construction of a dormitory; $135,000 for an addition to the present dormitory; $60,000 for a central heating plant; $74,000 for a three-story dormitory, $40,000 for a dormitory, $60,000 for a lighting and heating plant; all at the State buildings at Cranston, R. I., and $120,000 for a home for tuberculosis patients at Wallum Lake, R. I.

Bridgeport, Conn.—The Bridgeport Country Club has voted to appropriate $75,000 for a new clubhouse and equipment. Frank T. Staples, D. C. Warner and E. H. Havens are members of the Bldg. Com.

Albany, N. Y.—(Official)—Lewis F. Pilcher, State Arch., Capitol, Albany, informs us that the contract for the restoration of the State House has not been advertised, and cannot say at this time when bids will be received. Noted Apr. 1.

New York, N. Y.—(Borough of Brooklyn)—Louis F. Seitz, 1111 Dean St., will build a six-story, 83x150-ft. apartment hotel on Bedford Ave. and Dean St., to cost about $175,000. Montrose W. Morris, 82 Wall St., New York, N. Y., is Arch.

New York, N. Y.—(Borough of Brooklyn)—Plans have been prepared by Shampan & Shampan, 772 Broadway, for the construction of a five-story, 100x121-ft. apartment house on Linden Ave., for F. & W. Baker.

New York, N. Y.—(Borough of Bronx)—(Official)—Bids will be received until 3 p.m., May 13, by the Park Board, Department of Parks, Municipal Bldg., New York City, for the construction of an animal hospital in the Bronx Zoological Park. Cabot Ward is Pres. of Park Comn.

✚**New York, N. Y.**—(Borough of Manhattan)—(Official)—The contract for the construction and alterations to the medical staff house and nurses' home at the Willard Parker Hospital, foot of East 16th St., has been awarded to HARBY ABROMS & MELIUS, 30 East 42d St., New York, at $153,900. Noted Apr. 8 and 29.

New York, N. Y.—(Borough of Manhattan)—The Y. W. C. A. has filed plans by Parish & Schroeder, 12 West 31st St., for its twelve-story, 75x100-ft. nurses' home on 45th St., to cost $240,000.

New York, N. Y.—(Borough of Manhattan)—The Fogliasso Clement Building Co., 197 Bleeker St., will construct an eight-story, 44x97-ft. apartment house on West Washington Pl., to cost about $75,000.

New York, N. Y.—(Borough of Manhattan)—Edgar A. Levy, 505 Fifth Ave., has purchased a site at Park Ave. and 81st St., on which he will construct a 12-story apartment house, to cost $500,000.

New York, N. Y.—(Borough of Queens)—Work will soon be started on the three-story clubhouse at Flushing Ave. between Willett St. and Hillside Ave., Jamaica, for the Jamaica Lodge No. 988, Loyal Order of Moose. Hans Lieban, Post Office Bldg., Jamaica, is Arch. T. F. Archer is Chn. of Bldg. Com.

New York, N. Y.—(Borough of Queens)—Plans have been prepared by Albert Thompson, Arch., 1133 Broadway, New York, for the construction of a six-story office building at

Van Alst and Hunters Point Ave., Long Island City, for M. J. Degnon of the Degnon Contracting Co., 30 East 42d St., New York. Noted Feb. 11.

New York, N. Y.—(Borough of Richmond)—(Official)—Bids were received by C. B. J. Snyder, Supt. Dept. of Education, Park Ave. and 59th St., New York, for the construction of Public School No. 8 at Lindenwood Ave. and School St., Great Kills, as follows: W. D. Moore, $79,970; T. A. Clarke Co., 122 Livingston St., Brooklyn, $72,250; Mitchell-Farrell-Adrian, Inc., 4 Court Sq., Brooklyn, $79,812; J. Kresse Co., 1133 Broadway, New York, $82,850; H. C. Stowe Construction Co., 221 Greenpoint Ave., Brooklyn, $78,650. Noted Apr. 22.

Potsdam, N. Y.—Governor Whitman has signed a bill appropriating $300,000 for an addition to the Potsdam Normal School, $125,000 to be expended this year.

✚Rockville Center, N. Y.—The Board of Education has awarded the contract for the construction of a two-story school to MOSES R. CORNWELL. The estimated cost is $40,000. Blanchard & Barnes, 15 East 40th St., New York, N. Y., is Arch.

Utica, N. Y.—(Official)—Gonge & Ames, Arch., 70 Genesee St., informs us that a three weeks extension of time has been granted to contractors who wish to submit bids for the construction of a school and annex. Noted Mar. 18, Feb. 4 and Apr. 15.

Arlington, N. J.—St. Stephen's Church has had plans prepared for a new parochial school to be erected at Midland Ave. and Chestnut St. The structure is estimated to cost $70,000. Rev. John A. Westman is pastor.

Kearney, N. J.—St. Cecelia's Church, Hoyt and Kearney Ave., will construct a building estimated to cost $60,000. Joseph Kennedy, 6 North Fourth St., Harrison, N. J., is Arch.

Little Falls, N. J.—The Supreme Court has sustained a decision of the Board of Public Utility Commissioners ordering the Erie R.R. to build a new station at Little Falls.

Newark, N. J.—The Church of the Sacred Heart will build an addition to its church and school building on South Orange Ave., to cost about $40,000.

Newark, N. J.—The Board of Trustees of the Essex County Parental School will receive bids until 4 p.m., May 11, for the erection of a school building on Sussex Ave. John H. Ely and Wilson C. Ely, Newark, are Archs. Lathrop Anderson is Pres. of Bd.

Newark, N. J.—Nathan Harris, Arch., is preparing plans for a four-story office and loft building to be erected by the Peddie Estate at Halsey and Market St. The structure will be of brick, steel and limestone, and is estimated to cost $75,000.

Newark, N. J.—The Common Council passed a resolution providing for the construction of a one-story market on the site of the present City Market. The cost is not to exceed $636,000. This figure includes the cost of razing the old structure and putting the property in condition. Hooper & Co. is Arch.

Newark, N. J.—The Essex County Park Commission has approved plans prepared for the construction of an administration building in Branch Brook Park. Estimated cost, $100,000. The Legislature has approved a bond issue for this purpose.

Union Hill, N. J.—(Weehawken post office)—St. John's Evangelical Church will build a $40,000 building. Luther Burke is Rector.

Braddock, Penn.—St. Mary & St. Paul church will build a $60,000 church. William Ward Williams, Magee Bldg., Pittsburgh, Penn., is Arch.

Lancaster, Penn.—(Official)—The Lancaster School District will decide at its meeting in July whether a high school for boys shall be constructed. R. M. Bolennis is Secy. of the School District. Noted Apr. 29.

Narberth, Penn.—John T. Caldwell will build an apartment house, estimated to cost $50,000. Andrew C. Borzner and Maximilian Jahnke, Philadelphia, Penn., are Archs.

Philadelphia, Penn.—The City Club contemplates the construction of a clubhouse at 313 South Broad St., to cost about $250,000. William Alexander, Real Estate Trust Bldg., is Secy.

✚Pittsburgh, Penn.—(Official)—The THOMPSON-STARRETT CO., Second National Bank Bldg., has been awarded the contract for the construction of the Schenley High School, Grant Blvd. and Center Ave., at $623,000. Edward Stotz, Monongahela Bank Bldg., is Arch. Other bidders were: James L. Stuart, $640,500; George A. Fuller Co., $643,000, George Hogg Co., $647,287; Thomas Reilly Co., $628,117. C. L. Wooldridge is Supt. of Bldgs. Noted Oct. 22, Nov. 19, Apr. 1 and 22.

✚Reading, Penn.—J. L. Huge, Lancaster, Penn., has awarded the contract to CHARLES H. SCHLEGAL, Mt. Penn, Penn., for the construction of a five-story building at 750 Penn St., to cost $40,000. Harry Maurer, Bauer Bldg., is Arch.

Reading, Penn.—Edward Z. Scholl, Arch., is preparing plans for the construction of a motion-picture theater at 533 Penn St. C. X. Mantis is Mgr.

South Bethlehem, Penn.—Bids will be received by Robert Yost, Secy., of the School District, until May 27, for the erection of a high school, to cost $175,000. A. W. Leh, Post Office Bldg., is Arch. Noted Feb. 25 and Mar. 18.

Wilmington, Del.—Wallace E. Hance, Arch., Wilmington, has been retained by the School Board to prepare plans for the construction of a high school. The estimated cost is $150,000.

Baltimore, Md.—Otto G. Simonson, Arch., Maryland Casualty Tower, is preparing plans for the construction of a ten-story hotel, on Light St., for the Southern Hotel Co. Estimated cost, $1,000,000. Addison E. Mullikin, is Pres.

Baltimore, Md.—William A. Foreman & Co., Arch., is preparing plans for the construction of a building for Edward A. Strauff, Baltimore. Estimated cost, $60,000.

Baltimore, Md.—Plans have been prepared by Ellicott, & Emmart, Arch., 1102 Union Trust Bldg., for remodeling the Woodland Hall, on Garrison Ave., into an apartment house, for H. D. Eastman. Estimated cost, $40,000.

✚Baltimore, Md.—J. HENRY MILLER, Eutaw and Franklin St., Baltimore, has been awarded the contract for the construction of a motion picture theater at North Ave. near Charles St. for the Northern Amusement Co., Title Bldg. The estimated cost is $60,000. Noted Feb. 11 and Apr. 1.

Washington, D. C.—Bids will be received about May 15 for the construction of a seven-story, triangular shaped apartment house at 16th St., N. W., and New Hampshire Ave. for James O'Donnell, Ninth and F St., N. W. Estimated cost, $250,000. Noted Mar. 11.

Washington, D. C.—Plans are being revised by A. P. Clark, Jr., Arch., 816 14th St. N. W., for remodeling the five-story building of the National Savings Trust Co., 15th and H St. Estimated cost, $50,000. William Hoover is Pres.

Alexandria, Va.—W. B. Wood, Arch., 816 Connecticut Ave., N. W., Washington, D. C., will soon have plans prepared for the construction of a three-story hospital for the Alexandria Hospital Association. R. J. Jones is Chn. of Bldg. Com. The estimated cost is $50,000.

Lynchburg, Va.—Bids have been received for the construction of a three-story, 71x107-ft. building for the Virginia Episcopal School for Boys. F. H. Brooke, Telegraph Bldg., Washington, D. C., is Arch. Estimated cost, $60,000.

Matewan, W. Va.—Plans have been prepared by Pedigo & Garry, Arch., Bluefield, for the construction of a hotel for R. W. Buskirk, Matewan. The estimated cost is $150,000.

Charleston, S. C.—Bids will be received about May 7 by William Albert Swasey, Arch., 47 West 34th St., New York, N. Y., for the construction of a 12-story, 132x136-ft. theater and hotel building for the Argyle Hotel Co., 189 East Bay St., Charleston. Estimated cost, $600,000. Noted Oct. 29 and Apr. 8.

Greenville, S. C.—Plans have been prepared for the construction of a courthouse at Greenville. The estimated cost is $60,000. David B. Traxler is Chn. of Courthouse Comn.

Ashland, Ky.—Plans have been prepared by Weber, Werner & Adkins, Arch., 1206 Mercantile Library Bldg., Cincinnati, Ohio, for the construction of a four-story bank and office building for the Second National Bank. Estimated cost, $75,000.

Amherst, Ohio—The Board of Education plans to construct a two-story high school. Estimated cost, $50,000. O. F. Kaser is Pres. of Bd. of Education.

Ashtabula, Ohio—The Masonic Temple Association contemplates the construction of a three-story, 52x130-ft. building. The estimated cost is $50,000. T. W. Jarvis, Main St., is Secy.

Ashtabula, Ohio—The Loyal Order of Moose plans to construct a three-story, 85x140-ft. lodge building. Estimated cost, $100,000. H. A. Mack, Main St., is Secy.

Bloomdale, Ohio—An election was held Apr. 27 to vote on the question of issuing $60,000 in bonds, proceeds to be used for the construction of a school.

Canal Dover, Ohio—The Grace Lutheran Congregation plans to construct a church to cost about $50,000. B. W. Zeigler is Pastor.

Cedarville, Ohio—Plans have been prepared by Frank L. Packard, Arch., New Hayden Bldg., Columbus, for the construction of a school. Estimated cost, $75,000.

✚Cincinnati, Ohio—The general contract for the construction of a three-story apartment house at Forest and Burnet Ave. for the Forest Glen Realty Co., Sixth and Main St., has been awarded to REITMAN & REITMAN, 72 Perin Bldg., Cincinnati. Estimated cost, $100,000.

Cincinnati, Ohio—Preliminary plans are being considered by Leo J. Van Lahr, Vice-Pres. of the Provident Savings Bank & Trust Co., Seventh and Vine St., for the construction of a ten-story, 23x116-ft. bank and office building addition. The estimated cost is $100,000.

Cleveland, Ohio—Preliminary plans have been prepared by W. J. Carter, Arch. and Engr., 1423 Illuminating Bldg., for the construction of a four-story Masonic Temple for the Newburg Masonic Temple Co. James H. Rose, 9813 Pratt Ave., is Chn. of Bldg. Com. The estimated cost is $65,000. Noted Feb. 18.

✚Cleveland, Ohio—The contract for the construction of an office building and car shops, on Harvard Ave., for the Cleveland Ry. Co., Leader-News Bldg., has been awarded to the W. I. THOMPSON & SON CO., 6110 Euclid Ave., Cleveland.

Cleveland, Ohio—Bids will be received about May 15 by Izant & Frink, Arch., 913 Illuminating Bldg., for the construction of a building for H. O. Oster, 10,550 Euclid Ave. The estimated cost is $50,000.

Cleveland, Ohio—Bids will be received until noon, June 1, by the Clerk of the Board of Education, Rockwell Ave. and East Sixth St., for the construction of an addition to the Central School, Central Ave. and East 65th St. Frank G. Hogan is Dir. of Schools. Noted Mar. 11.

Cleveland, Ohio—Plans are being prepared by Theodore Conner, Arch., 908 Park Bldg., for the construction of a three-story commercial building at West 76th St. and Lake Rd., for the Clifton Furniture Co., 9802 Madison Ave. Estimated cost, $50,000.

Cleveland, Ohio—Paul Matzinger, Arch., 109 Lennox Bldg., has prepared plans for the remodeling of the Y. M. C. A. building into a theater for the Strand Theater Co., at Prospect Ave. and East Ninth St. Estimated cost, $40,000.

Cleveland, Ohio—H. A. Walsh, Arch., 255 Lennox Bldg., is preparing plans for the construction of a school at Superior Ave. and East 43d St. for the Immaculate Conception Church. Estimated cost, $50,000. George G. Murphy is Pastor.

Cleveland Heights, Ohio—(Warrensville post office)—Plans are being prepared by Franz C. Warner and John H. Graham, Archs., 767 Hippodrome Bldg., Cleveland, for the construction of a two-story grade school. The estimated cost is $75,000. John W. Perrin, Caxton Bldg., is Pres. of Bd. of Education.

Columbus, Ohio—D. Riebel & Sons, Arch., 33 North High St., is preparing plans for the construction of a two-story high school. The estimated cost is $500,000. Edward B. MacFadden, Town and High St., is Clk. of Bd. of Education. An election for the purpose of voting on the question of issuing bonds for the proposition will be held in the fall.

Columbus, Ohio—The Finance Committee of the Legislature has voted in favor of an appropriation of $340,000. This provides for the construction of a domestic science building to cost about $150,000, and a shop building for manual training to cost about $120,000 for the Ohio State University.

✚Conneaut, Ohio—F. HORTON, 217 Washington St., Conneaut, has been awarded the contract for the construction of a two-story building for the Congregational Church. Estimated cost, $50,000. C. W. De Voe, 199 Liberty St., is Chn. of Bldg. Com.

Oberlin, Ohio—The Directors of Oberlin College plan to construct an auditorium. Estimated cost, $500,000. H. C. King is Pres. and C. P. Doolittle, 40 Professor St., is Supt. of Bldgs. Cass Gilbert, 11 East 24th St., New York, N. Y., is Arch.

✚Toledo, Ohio—The contract for the construction of the Nebraska School on Nebraska Ave. has been awarded to the A. BENTLEY & SONS CO., 201 Belmont Ave., Toledo, at $148,262. Noted Apr. 8.

Toledo, Ohio—Langdon & Hohly, Arch., has prepared plans for the Fort Industry Lodge F. and A. M. George J. Marquardt is Pres.

Van Wert, Ohio—Contracts will be awarded soon for the construction of a five-story Y. M. C. A. building. Estimated cost, $50,000. E. I. Antrim is Secy. and Shattuck & Hussey, 19 South La Salle St., Chicago, is Arch.

Wadsworth, Ohio—Bids have been received by Charles E. Holbein, Clk. of Bd. of Education, for the construction of a two-story high and grade school. Estimated cost, $50,000. Vernon Redding, 301 Bird Bldg., Mansfield, is Arch.

✚Wilmington, Ohio—The contract for the construction of a one-story bank building for the Clinton County National Bank has been awarded to the WESTERN BUILDING CO., Iroquois Bldg., Buffalo, N. Y. Estimated cost, $60,000.

✚Ben Davis, Ind.—(Bridgeport post office)—The contract for the construction of a two-story school has been awarded to WILLIAM EVERLY, 230 East Ohio St., Indianapolis. Estimated cost, $40,000. Noted Mar. 18.

Bloomington, Ind.—The University of Indiana will soon award contracts for the construction of a gymnasium. Estimated cost, $150,000. Noted Mar. 25 and Apr. 1.

Franklin, Ind.—Bids will be received about May 22 by Herbert Foltz, Arch., 1108 Indiana Pythian Bldg., Indianapolis, for the construction of a State Masonic Home for the Grand Masonic Lodge of Indiana. Estimated cost, $150,000. E. O. Holloway, Knightstown, is Chn. of Bldg. Com. Noted Sept. 3.

✚Hammond, Ind.—The contract for the construction of a two-story school has been awarded to J. H. McCLAY at $51,300. Noted Dec. 17.

Kendallville, Ind.—Bids will be received until May 7 by P. C. Emmons, Supt. of the Bd. of Education, for the construction of a high school on Diamond St. Estimated cost, $50,000. C. R. Weatherhogg, 41 Hamilton National Bank Bldg., Ft. Wayne, is Arch. Noted Feb. 18.

East Lansing, Mich.—The Michigan Agricultural College Alumni Association plans to construct a Union clubhouse on the college campus. Estimated cost, $100,000. C. S. Langdon is Secy.

Detroit, Mich.—John H. Kunsky and associates plan to construct a theater at Broadway and Witherell St. Noted Aug. 20.

Detroit, Mich.—Bids will be received until 2.30 p.m., May 13, by D. B. Duffield, Pres. of Detroit Library Comn., for the structural steel work of the superstructure of the main library to be constructed at Woodward, Cass, Putnam and Kirby Ave. The estimated cost of the entire building is $1,000,000. Cass Gilbert, 11 East 24th St., New York, N. Y., is Arch. Noted Dec. 17 and Jan. 21.

Highland Park, Mich.—Plans are being prepared by W. D. Butterfield, Arch., 1113 Davis Whitney Bldg., for the construction of the two-story, 100x130-ft. Southeastern High School at Oakland and Massachusetts Ave. The estimated cost is $100,000. W. S. Conley, 1117 California Ave., is Secy. of Bd. of Education. Noted Dec. 10.

✚Aurora, Ill.—The contract for the construction of a two-story grade school has been awarded to JAMES MACKIMIE, Aurora. Estimated cost, $50,000. W. S. Beaupre, Aurora National Bank, is Secy. of Bd. of Education.

✚Bloomington, Ill.—The contract for the construction of a two-story, 75x115-ft. theater and office building has been awarded to the BLOOMINGTON CONSTRUCTION CO., Bloomington. Estimated cost, $50,000. Charles F. Sorenson, 1301 North Maplewood Ave., is Arch.

Chicago, Ill.—Bids will be received about May 13 by Anton Charvat, Arch., 1801 South Ashland Ave., for the construction of a building for the John Huss Memorial Home Association. Joseph W. Edgermayer, 2418 Grenshaw St., is Chn. of Bldg. Com. Estimated cost, $80,000.

Chicago, Ill.—The Chicago Telephone Co., 230 West Washington St., has purchased a site at Franklin and Washington St. The company plans to construct a building estimated to cost $750,000.

Chicago, Ill.—Plans are being prepared by James Molitor, Arch., 167 West Washington St., for the construction of a two-story building for the St. Cyril and St. Methodius Church. Estimated cost, $50,000.

Chicago, Ill.—Plans are being prepared by Ottenheimer, Stern & Reichert, Arch., 105 West Monroe St., for the construction of an eight-story clubhouse for Lodge No. 4, B. P. O. E. The estimated cost is $250,000. Noted Feb. 11.

Chicago, Ill.—The Flossmoor Country Club will build a brick club-house to replace the one destroyed by fire. It will cost $99,000.

Chicago, Ill.—The Knight Light Co., 720 North Franklin St., plans to build a six-story building at Orleans St. and Chicago Ave. Estimated cost, $130,000.

Chicago, Ill.—The Board of Education will construct a three-story brick school at 3101 West 65th St. Estimated cost, $60,000. A. F. Hussander is Arch.

✚Lisle, Ill.—The general contract for the construction of an addition to the seminary at the St. Procopius Abbey near Lisle has been awarded to F. SEDLAK SONS, 2427 South Spaulding Ave., Chicago. Estimated cost, $150,000.

Palestine, Ill.—Contracts will soon be awarded by Hewitt & Emerson, Arch., 321 West Main St., Peoria, for the construction of a two-story high school. The estimated cost is $50,000. J. J. Cawood is Secy. of Bd. of Education.

Pekin, Ill.—Bids will be received about May 10 by Hewitt & Emerson, Arch., 321 West Main St., Peoria, for the construction of a two-story high school. The estimated cost is $90,000. J. C. Adydelott is Chn. of Bd. of Education.

✚Peoria, Ill.—The general contract for the construction of a two-story addition to the Whittier School has been awarded to JOHN VOSS & SON, Peoria. Estimated cost, $55,000. Noted Sept. 24.

✚Chippewa Falls, Wis.—The WISCONSIN CONSTRUCTION CO. has been awarded the contract for the construction of the New Lumberman's Bank Bldg. Estimated cost, $65,000.

Eau Claire, Wis.—Plans are being prepared by George Awsumb, Arch., 14 East Jackson Blvd., Chicago, Ill., for the construction of a city hall. Estimated cost, $50,000. J. C. Fennessey, is City Clk. Noted Mar. 11 and Apr. 29.

✚Jefferson, Wis.—The contract for the construction of a building for St. Collette's Institute has been awarded to LADIEN & STENGEL, Jefferson. Estimated cost, $50,000.

Kenosha, Wis.—Bids will soon be received by M. D. Bradford, Board of Education, for the construction of a three-story grade school. The estimated cost is $100,000. H. H. Hahn, Burke Bldg., is Arch. Noted Apr. 15.

Madison, Wis.—Preliminary plans are being prepared by Philip Dean, Comr. of Bldgs., for the construction of a four-story city hall and auditorium. Estimated cost, $200,000. A. W. McConnell is Chn. of Com.

Milwaukee, Wis.—Bids will be received about May 15 by Kirchoff & Rose, Arch., Majestic Bldg., for the construction of a four-story building for the Palace Theater Co. The estimated cost is $350,000. Noted Mar. 4 and 11, and Apr. 1.

Milwaukee, Wis.—L. J. Petit, Wisconsin National Bank, contemplates the construction of a building in Milwaukee. The estimated cost is $250,000.

Forest City, Iowa—Plans are being prepared by Alban & Lockhardt, Arch., 347 Endicott Bldg., St. Paul, Minn., for the construction of a three-story high school for the Board of Education. Estimated cost, $60,000.

Harlan, Iowa—The citizens voted in favor of issuing $90,000 in bonds, the proceeds of which will be used for the construction of a high school.

Mt. Ayer, Iowa—J. G. Ralston, Arch., Russel-Lameson Bldg., Waterloo, is preparing plans for the construction of a county building. Estimated cost, $40,000.

Roland, Iowa—The School Board plans to construct a $50,000 school at Roland. Bonds for the purpose have been voted.

Kenyon, Minn.—D. E. Evans, Mexico, Mo., submitted the lowest bid for the construction of a two-story school for District No. 91. The estimated cost is $50,000. J. C. E. Holman is Clk. of School Bd. Noted Jan. 14.

Minneapolis, Minn.—Plans are being prepared by Kirby T. Snyder, Arch., Plymouth Bldg., for the construction of an apartment house at Lake and First St. for Harry Kennedy, 3005 Oakland Ave. Estimated cost, $75,000.

✚Virginia, Minn.—The GENERAL CONTRACTING CO., 1226 Plymouth Bldg., Minneapolis, has been awarded the contract for the construction of a parochial school for Our Lady of Lourdes Church. Estimated cost, $70,000.

Wells, Minn.—The St. Casmirs Church plans to construct a two-story, 66x80-ft. parochial school. Estimated cost, $50,000. J. Nickelia, Wells, is Pastor.

✚Horton, Kan.—SCOTT BROS., Concordia, Kan., has been awarded the contract for the construction of a high school. Bonds have been voted for the purpose. The estimated cost is $60,000.

Meade, Kan.—W. E. Hulse & Co., Arch., Hutchinson, has prepared plans for the construction of a courthouse for Meade County. The estimated cost is $60,000. The citizens will vote about June 1 on the question of issuing bonds for the purpose.

Minneapolis, Kan.—The Board of Education plans to construct a $40,000 school. J. E. Johnston is Pres. of Bd.

Salina, Kan.—W. T. Schmitt, Arch., 1634 West Tenth St., Oklahoma, Okla., is preparing plans for the construction of a high school at Salina. O. D. Walker is Pres. of Bd. of Education. Estimated cost, $100,000. Noted Apr. 8.

Omaha, Neb.—Work will be started about June 15 on the construction of a 12-story bank and office building for the Union Securities Co. Estimated cost, $625,000. Noted Apr. 15.

Sioux Falls, S. D.—Bids will be received until 4 p.m., May 17 by W. B. Fuller, Secy., Independent School District for the construction of a grade school. The estimated cost is $50,000. Patton, Holmes & Flin, 8 South Dearborn St., Chicago, Ill., is Arch.

Anaconda, Mont.—Plans have been prepared by Wilson & Cuttin, Arch., Butte, for the construction of a three-story addition to the high school, to be used as a gymnasium. The estimated cost is $100,000. Noted May 21, 1914.

Warmsprings, Mont.—A bond issue of $100,000 has been authorized by the State Board of Examiners, Helena. The proceeds will be used for the construction of buildings at the State Hospital for the Insane, Warmsprings and for buildings at the State Tuberculosis Sanitarium, Helena.

Joplin, Mo.—Plans are being prepared by Hubbell & Greene, Arch., Dallas, Tex., for the construction of a building for the Scottish Rite Cathedral. The estimated cost is $150,000. Noted Apr. 8.

St. Louis, Mo.—The Union Electric Light & Power Co. will construct an 18-story office building at Ninth and St. Charles St.

St. Louis, Mo.—The Orpheum Theater Co., 1564 Broadway, New York, N. Y., plans to construct a theater at Ninth and St. Charles St. Estimated cost, $1,000,000. Louis A. Cella is interested.

Dallas, Tex.—Hubbell & Greene, Arch., is preparing plans for remodeling the building at Commerce and Martin St. The building will be occupied by the Federal Reserve Bank of the 11th District. Estimated cost, $65,000.

El Paso, Tex.—Plans have been prepared by Trost & Trost, Arch., Mills Bldg., and accepted by the Commissioners of El Paso County, for the construction of a courthouse. The estimated cost is $400,000. Noted Dec. 17.

✚**Fort Worth, Tex.**—A. W. FLINT, Fort Worth, has been awarded the contract for the construction of a two-story fireproof school for the Masonic Orphans' Home. Estimated cost, $75,000. Hubbell & Greene, Dallas, is Arch.

Bartlesville, Okla.—Bids will be received about May 20 by Shattuck & Hussey, Arch., 19 South La Salle St., Chicago, Ill., for the construction of a two-story Y. M. C. A. building. Noted Oct. 22.

Woodman, Colo.—The Directors of the Modern Woodmen of America plan to construct a hospital at the society's sanitarium. The estimated cost is $50,000. A. Ruthledge, Supt., is interested.

Albuquerque, N. M.—Bids are being received by Edward Cristy, Assoc. Arch., for the construction of a four-story Y. M. C. A. building. Estimated cost, $75,000.

Mountain Home, Idaho—An election will be held May 22 to vote on the question of issuing $50,000 in bonds. The proceeds will be used for the construction of a courthouse. F. M. Hobbs, is County Clk.

Pocatello, Idaho—Plans are being prepared by F. Paradice, Arch., for the construction of a high school. The estimated cost is $70,000. W. R. Siders is Secy. of Bd. of Education. Noted Mar. 18 and Apr. 8.

Seattle, Wash.—Bebb & Gould, Arch., Denny Bldg., has prepared plans for the construction of a two-story fireproof building for the University of Washington. The building will be constructed in two units, the first one costing about $150,000.

Seattle, Wash.—The Metropolitan Building Co., plans to construct an office building, estimated to cost, $200,000.

Seattle, Wash.—The New Auditorium Co., Seattle, will construct an auditorium on Marion St. between 10th and 11th Ave. Estimated cost, $100,000. H. Ryan, Northern Bank Bldg., is Arch. Noted Aug. 13.

✚**Spokane, Wash.**—The SOUND CONSTRUCTION & ENGINEERING CO., Lowman Bldg., Seattle, has been awarded the contract for rebuilding the seven-story Mohawk Bldg. recently destroyed by fire, for M. A. White and George R. Dodson, Spokane. Estimated cost, $200,000. Noted Apr. 15.

Walla Walla, Wash.—Competitive plans are being received by P. M. Winans, Representative, for the construction of a hospital for the Sisters of Providence. The estimated cost is $200,000. Noted Feb. 18 and 25.

Eugene, Ore.—The Board of Regents of the University of Oregon plans to construct a building at the university grounds to be used by the Department of Law. Estimated cost, $40,000.

Pendleton, Ore.—Bids will be received until May 20 by the State Board of Control, Salem, for the construction of a three-story, reinforced-concrete wing at the State Hospital for Insane, Pendleton. Estimated cost, $100,000. W. C. Knighton is State Arch. Noted Feb. 18.

Portland, Ore.—Tourtellotte & Hummel, Arch., has prepared plans for the construction of a school at 12th and Taylor St. for the First Methodist Episcopal Church. Estimated cost, $50,000.

Los Banos, Calif.—Plans prepared by Ernest J. Kump, Arch., Fresno, for the construction of a three-story building for the Odd Fellows have been accepted by the Building Committee. Estimated cost, $40,000. J. V. Toscano is a member of Bldg. Com.

San Bernardino, Calif.—The First Congregational Church plans to construct a church at Ninth and E St. Estimated cost, $50,000. H. W. Bowbray is Pastor.

✚**Stockton, Calif.**—(Official)—R. W. MOLLER, 185 Stevenson St., Stockton, at $63,928, has been awarded the contract for the construction of a two-story school. Other bidders were: Daniels & Green, $67,775; Ernest Green, $67,964; Chuhart & Nystedt, $69,815; Robert Powell, $71,443; French, Zuick & Fuhrman, $74,592. Ansel S. Williams is Supt. of Schools. Noted Apr. 15.

Quebec, Que.—The Christian Brothers contemplate the construction of a commercial school on Chauveau Ave. Estimated cost, $200,000.

Norwood, Ont.—Henry W. Greene, Arch., Winnipeg, Man., has been commissioned by the St. Boniface Public School Board to prepare plans for the construction of a reinforced-concrete school at Youville and Eugenic St. The estimated cost is $120,000. S. S. Kennedy, Norwood, is Consult. Engr.

Sandwich, Ont.—The Assumption College plans to construct a three-story, 70x107-ft. dormitory and a one-story gymnasium on the college campus. Estimated cost, $60,000. F. F. Foster is Pres.

Toronto, Ont.—The School Board plans to construct a school for the Danford Ave. District on Greenwood near Furniss Ave. Estimated cost, $400,000.

Toronto, Ont.—Darling & Pearson, Arch., is preparing plans for the construction of a Union Station at North Toronto for the Canadian Pacific Ry. The estimated cost is $800,000. Noted Jan. 21.

Calgary, Alta.—Bids will be received until 4 p.m., May 25, by R. C. Desrochers, Dept. of Pub. Wks., Ottawa, Ont., for the construction of an armory. The estimated cost is $350,000. L. Dowler, Calgary, is Resident Arch. Noted Apr. 15.

Cardston, Alta.—The School Board plans to rebuild the school recently destroyed by fire, at Cardston. Estimated cost, $60,000.

The Builders Iron Foundry, Providence, R. I., recently received an order from Swift & Co., Chicago, for an extra heavy 4-in. Venturi meter tube, with Type M register indicator recorder, for use in new boiler feed service.

The Southwark Foundry & Machine Co., Philadelphia, Penn., is now actively engaged in the manufacture of hydraulic and steam hydraulic presses, and has a considerable volume of this work in hand.

The Chesapeake Iron Works, Baltimore, Md., has acquired control of Lauer & Harper Co. The latter company has a large plant at Westport and has specialized in the fabrication of steel. The Chesapeake Iron Works was organized in 1902. F. S. Cavannes is Pres. and R. C. Sandlass, Ch. Engr.

The Simplex Concrete Piling Co., Philadelphia, Penn., announces that the Cranford Construction Co., 609 Gerke Bldg., Cincinnati, Ohio, has secured the contract for simplex concrete piles for the Pennsylvania station and platforms at Wilkinsburg, Penn., and the contract for simplex concrete piles for factory at Third and Lakeside Ave., Cleveland, Ohio.

Municipal Bond Sales during March aggregated $50,000,000, according to the computation of the "Financial Chronicle." This shows a gain over the same month last year of $8,000,000. In the first three months of this year, sales amounted to $115,000,000, compared with $162,000,000 in the corresponding months last year. The record of 1914, however, was phenomenal, and with the exception of that year and 1911, the sales this year have been the largest on record.

The Nordberg Mfg. Co., Milwaukee, Wis., builder of engines, hoists, pumping engines, steam stamps, and other appliances, announces the removal of its New York office to the new Equitable Bldg., 120 Broadway. H. M. MacLaren is Mgr. in New York.

The Toledo Bridge & Crane Co., Toledo, Ohio, announces that a branch office has been opened in the Kresge Bldg., Detroit. MacArthur Gorton will be the Michigan representative, with headquarters at Detroit.

The Traylor Engineering & Mfg. Co., Allentown, Penn., announces that some important orders have recently been closed. Conklin & Foss Co., who has the largest trap rock quarry in the United States, has purchased what is said to be the largest jaw crusher ever made. The crusher is 56x86 in., weighing 520,000 lb., and constructed of cast steel throughout, with manganese steel fittings. The crusher will be driven by a 350-hp. Westinghouse motor. The company was also furnished two heavy stone elevators, one 75-ft. center and the other 52 ft., fitted with buckets 30x12x15 in. of ¼-in. steel. A special car of rigid design and 10-ton capacity was used for transportation of the stone. These cars are rigid but are dumped by a heavy tipple actuated by compressed-air service.

The Vulcanite Portland Cement Co. announces the removal of its office to 8 West 40th St., New York, N. Y. Albert Moyer is Mgr. of Sales.

G. W. Humphrey, Consulting and Designing Engineer, announces the removal of his office to the Webster Bldg., 327 South La Salle St., Chicago, Ill.

The Roemac Road Department of the Philadelphia Quartz Co. has established a branch office in the Union Bldg., Anderson, Ind. Brooks E. Miller represents the company in that territory.

The Commission of Highways, State of New York, announces that, effective May 1, the office of Division No. 1, Bertrand H. Wait, Division Engr., will be moved from White Plains to Poughkeepsie.

The Raymond Concrete Pile Co., 90 West St., New York, N. Y., announces that it has recently been awarded contracts for concrete pile foundations as follows: For the factory of the Atlantic Can Co., Baltimore, Md.; for the warehouse of the Logan-Gregg Hardware Co., Pittsburgh, Penn.; for the Sharswood Public School, Second and Wolf St., Philadelphia, Penn.; for Mergenthaler Bros.' coal pockets, Swanson and Wolf St., Philadelphia, Penn.; warehouse and other buildings for the Standard Oil Co., Cortlandt St., Chicago, Ill.; new pattern storage warehouse for the Westinghouse Electric & Mfg. Co., Cleveland, Ohio.

A. D. Cook, Lawrenceburg, Ind., manufacturer of pumps and supplies for deep wells, will take over the business of the Cook Well Co., St. Louis, Mo., which has retired from business.

The Underpinning & Foundation Co., 290 Broadway, New York, has recently been awarded the foundation work for a 12-story structure to be known as the Cliff Dwelling, at 96th St. and Riverside Drive. The foundation will consist of standard Hercules steel piles. Herman Leader is Arch.

The Canadian Fairbanks, Morse Co., Ltd., has been appointed selling agent in Canada for the Temflex Metal Hose manufactured by the Pennsylvania Flexible Metallic Tubing Co., Philadelphia, Penn.

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.

Route 12, Section 2

✚Bids were received Apr. 20 by the Public Service Commission of the First District for the construction of Section 2 of Route No. 12, a part of the Eastern Parkway Rapid Transit Ry., from: (A) INTER-CONTINENTAL CONSTRUCTION CO. (awarded contract); (B) Bayly Hopkins; (C) Charles Cooper; (D) Underpinning & Foundation Co.; (E) H. P. Converse & Co.; (F) Degnon Contracting Co.; (G) T. A. Gillespie Co.; (H) Norton & Gorman Contracting Co.; (I) Newman & Carey; (J) Oscar Daniels Co.; (K) Dock Contractor Co.; (L) E. E. Smith Contracting Co.; (M) Mason & Hanger Co.; (N) Tidewater Building Co.; (O) Rogers & Hagerty, Inc.; (P) Arthur McMullen; (Q) John J. Green; (R) Smith, Hauser & MacIsaac, Inc.; (S) W. H. Gahagan, Inc. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
606,000 cu.yd. earth excavation above m. h. w.	$1.75	$1.60	$1.96	$1.98	$2.10	$2.10	$2.35	$2.45	$2.65	$2.70
800 cu.yd. earth excavation above and below m. h. w. sewers	1.75	3.00	1.96	1.98	2.10	2.10	2.35	10.00	1.30	2.70
30 front ft. maintaining and underpinning buildings	10.00	50.00	40.00	80.00	100.00	40.00	50.00	40.00	50.00	1.00
Maintaining, moving and restoring Slocum statue.	600.00	10,000.00	2000.00	4000.00	2000.00	10,000.00	1000.00	250.00	5000.00	3500.00
Maintaining, moving and restoring Maxwell tablet boulder	400.00	1000.00	1000.00	500.00	400.00	5000.00	400.00	100.00	1000.00	1500.00
98 maintaining, protecting and preserving trees	10.00	50.00	10.00	15.00	100.00	50.00	60.00	100.00	50.00	20.00
138 replacing trees	100.00	50.00	15.00	10.00	100.00	25.00	50.00	75.00	110.00	65.00
89,400 cu.yd. concrete masonry	7.00	7.00	6.50	6.50	7.00	7.50	7.00	7.00	7.00	7.50
6000 cu.yd. protective concrete masonry outside w.p.	7.00	7.00	6.50	6.50	7.00	7.50	7.00	6.00	6.00	7.50
20 cu.yd. rubble stone masonry	7.00	7.00	5.00	6.50	7.00	6.00	4.20	8.00	6.00	9.00
20 cu.yd. dry rubble masonry	4.00	7.00	5.00	6.00	4.00	5.00	3.50	6.00	3.90	6.00
20 cu.yd. brick masonry	17.00	15.00	15.00	20.00	20.00	15.00	12.00	15.00	20.00	15.00
50 cu.yd. removal and disposal of foundations	2.50	10.00	5.00	10.00	8.00	15.00	3.00	8.00	5.20	6.00
70 cu.yd. hollow terra cotta brick or tile masonry	15.00	15.00	15.00	25.00	15.00	15.00	15.00	15.00	15.00	17.00
1000 bbl. grout of portland cement	4.00	3.00	2.50	2.20	2.00	1.50	2.50	2.50	2.43	2.00
1000 lin.ft. timber piles	0.50	0.50	0.01	0.20	0.30	0.10	0.40	0.50	0.60	0.35
2 M. ft. b.m. timber foundations	50.00	50.00	20.00	40.00	50.00	25.00	48.00	75.00	50.00	60.00
50 cu.yd. broken stone or gravel	2.00	2.00	2.50	3.00	2.00	2.00	2.10	3.00	3.00	2.00
14,700 sq.yd. waterproofing, 1-ply	0.50	0.40	0.45	0.40	0.35	0.50	0.35	0.30	0.36	0.35
100 sq.yd. waterproofing, 2-ply	0.90	0.60	0.85	0.80	0.60	0.75	0.60	0.50	0.66	0.70
39,800 sq.yd. waterproofing, 3-ply	1.00	1.00	1.00	1.20	0.80	1.00	1.00	0.75	0.99	1.00
100 sq.yd. waterproofing, 4-ply	1.35	1.25	1.20	1.60	1.20	1.30	1.20	1.00	1.28	1.35
100 sq.yd. waterproofing, 5-ply	1.70	1.60	1.40	2.00	1.30	1.65	1.40	1.25	1.52	1.65
100 sq.yd. waterproofing, 6-ply	2.00	2.00	1.60	2.40	1.40	2.00	1.60	1.50	1.83	2.00
100 sq.yd. waterproofing, dry ply	0.40	0.40	0.45	0.35	0.20	0.40	0.30	0.25	0.17	0.35
2000 cu.yd. brick in asphalt mastic	25.00	20.00	25.00	18.00	22.00	20.00	20.00	20.00	23.30	21.00
50 lin.ft. vitrified drain pipe, 12-in.	1.00	1.00	1.40	1.50	1.00	0.80	0.80	0.60	0.48	1.00
50 lin.ft. vitrified drain pipe, 10-in.	0.85	0.85	1.25	1.25	0.80	0.50	0.60	0.50	0.40	0.80
50 lin.ft. vitrified drain pipe, 8-in.	0.70	0.75	1.00	1.00	0.70	0.30	0.40	0.40	0.35	0.70
50 lin.ft. vitrified drain pipe, 6-in.	0.60	0.60	0.60	0.75	0.60	0.20	0.30	0.30	0.30	0.60
50 lin.ft. vitrified drain pipe, 4-in.	0.60	0.50	0.50	0.50	0.40	0.20	0.20	0.20	0.23	0.60
50 lin.ft. c.i. drain pipe, 6-in.	1.50	1.50	1.25	1.50	1.20	1.00	0.80	0.90	0.83	1.00
50 lin.ft. c.i. drain pipe, 4-in.	1.00	1.00	1.00	0.75	1.00	1.00	0.60	0.75	0.69	0.60
200 lin.ft. c.i. drain pipe, 10-in.	2.40	2.25	3.00	2.50	1.50	1.50	1.60	1.80	1.76	1.70
100 lin.ft. c.i. pipe and fittings, 3-in. extra heavy	1.00	1.00	1.00	0.75	0.60	1.00	0.60	0.90	0.58	0.60
5100 lin.ft. c.i. pipe and fittings, 4-in. extra heavy	1.25	1.25	1.30	1.00	1.00	1.00	0.72	1.00	0.74	0.70
300 lin.ft. c.i. pipe and fittings, 6-in. extra heavy	1.50	2.00	1.65	1.50	1.30	1.50	1.10	1.25	1.12	1.10
200 lin.ft. c.i. pipe and fittings, 8-in. extra heavy	2.00	2.50	2.00	2.00	1.60	1.75	1.40	1.75	1.37	1.35
442,000 duct ft. tunnel ducts	0.10	0.10	0.09	0.15	0.095	0.10	0.10	0.08	0.10½	0.09
28,400 duct ft. railroad ducts	0.12	0.10	0.20	0.20	0.10	0.20	0.10	0.08	0.22	0.13
5300 tons riveted steel	54.00	56.00	55.00	60.00	56.00	59.00	55.00	60.00	65.00	54.00
7070 tons steel beams and shapes	48.00	56.00	55.00	56.00	48.00	50.00	50.00	50.00	50.00	50.00
960 tons steel rods and bars	60.00	60.00	55.00	56.00	40.00	45.00	45.00	55.00	43.50	55.00
100 tons miscellaneous iron castings	65.00	75.00	70.00	80.00	60.00	50.00	56.00	75.00	75.00	55.00
1 ton miscellaneous sewer irons	65.00	75.00	70.00	100.00	80.00	80.00	61.00	75.00	75.00	65.00
200 lb. special wire forms	0.10	0.10	0.12	0.20	0.10	0.30	0.10	0.10	0.16	0.25
12,900 lin.ft. seasoned oak or ash hand rail 1¼-in.	0.25	0.25	1.50	0.35	0.40	0.50	0.40	0.30	0.30	0.27
16,300 sq.ft. steel gratings for ventilation	1.50	1.50	1.40	1.00	1.40	1.10	1.30	1.25	1.80	1.40
3040 sq.ft. vault lights	1.40	1.50	1.40	0.90	1.40	1.10	1.60	1.00	1.24	0.80
680 sq.yd. sidewalks restored	0.50	3.00	2.00	1.00	1.75	2.00	1.00	2.00	3.00	2.25
100 sq.yd. repavement of roadways, macadam	0.60	1.50	1.00	1.80	1.40	1.50	0.60	1.50	1.00	1.75
1000 sq.yd. repavement of roadways, asphalt	2.00	2.75	2.50	2.25	2.40	2.50	2.00	2.50	2.50	2.75
900 sq.yd. repavement of roadways, granite block	2.50	2.50	4.00	1.00	1.75	2.50	0.50	1.00	2.50	1.50
11,300 sq.yd. repavement of roadways, Belgian block	1.00	2.00	0.60	1.00	0.80	0.80	0.50	0.50	0.50	1.50
1000 sq.yd. repavement of roadways, asphalt block	2.50	2.50	3.50	2.25	1.50	3.00	3.00	2.50	2.50	3.25
100 lin.ft. new bluestone curb	1.00	1.50	1.00	1.60	0.90	1.00	1.00	1.00	1.50	0.90
100 lin.ft. new 8-in. granite curb	1.00	1.50	1.50	2.60	2.00	1.50	2.00	1.50	2.50	1.00
140 sq.yd. repavement of roadways, brick	3.00	2.00	2.50	3.00	2.25	2.50	2.00	3.25	2.50	3.00
19,700 sq.yd. repavement of roadways, macadam and asphalt surface	1.47	1.50	1.20	2.00	1.50	1.75	0.75	1.00	1.15	0.75
4800 sq.yd. park surface restored	0.50	3.00	1.25	1.00	0.50	2.00	1.50	0.50	2.00	1.50
12,500 lin.ft. electric conduits, ¾-in. w.i.	0.25	0.15	0.30	0.20	0.15	0.25	0.20	0.15	0.19	0.12
750 lin.ft. electric conduits, 1¼-in. w.i.	0.40	0.30	0.50	0.40	0.30	0.40	0.35	0.20	0.30	0.27
750 lin.ft. electric conduits, 2-in. w.i.	0.60	0.50	0.75	0.50	0.40	0.60	0.40	0.30	0.45	0.35
4400 lin.ft. electric conduits, 1-in. w.i.	0.30	0.20	0.40	0.30	0.25	0.30	0.25	0.20	0.25	0.16
1100 c.i. outlet boxes	1.00	0.75	1.00	1.50	1.00	1.00	0.70	0.50	1.00	1.00
200 lin.ft. c.i. pipes and fittings, 6-in. extra heavy	1.50	2.00	2.00	1.50	1.50	1.50	0.90	1.50	1.12	1.10
150 lin.ft. c.i. pipes and fittings, 3-in. extra heavy	1.00	1.00	1.00	0.75	1.00	1.00	0.40	1.00	0.58	0.60
100 lin.ft. vitrified pipe sewer, 12-in.	3.00	2.50	3.00	5.00	1.00	3.00	1.20	1.25	0.48	2.20
100 lin.ft. vitrified pipe sewer, 15-in.	3.50	3.00	3.50	6.00	1.50	3.50	1.50	1.75	0.82	2.60
100 lin.ft. vitrified pipe sewer, 18-in.	4.00	3.50	4.00	5.00	2.00	4.00	2.00	2.25	1.12	3.20
100 lin.ft. vitrified pipe sewer, 20-in.	4.50	3.75	4.50	5.00	2.50	4.50	2.60	2.50	1.38	3.50
100 lin.ft. vitrified pipe sewer, 22-in.	5.00	4.00	5.00	5.00	3.00	5.00	3.20	2.75	1.60	3.75
200 lin.ft. vitrified pipe sewer, 24-in.	5.50	4.50	5.50	8.00	3.25	5.50	3.80	3.00	1.88	4.50
3 tons c.i. sewer pipe, straight	50.00	75.00	40.00	40.00	50.00	50.00	45.00	50.00	40.00	40.00
1 ton c.i. sewer pipe, special	90.00	75.00	50.00	80.00	60.00	80.00	65.00	75.00	92.00	70.00
80 lin.ft. pipe sewer egg-shaped, 22½ in. x 15 in.	10.00	4.00	4.00	10.00	3.00	4.00	4.00	3.00	1.40	3.50
250 lin.ft. masonry sewer, 3 ft. 6 in. x 2 ft. 4 in.	10.00	6.00	6.50	10.00	4.00	6.00	6.00	5.50	3.57	4.50
160 lin.ft. masonry sewer, 3 ft. 9 in. x 2 ft. 6 in.	10.00	7.00	7.50	10.00	5.00	7.00	6.00	6.75	4.07	5.00
50 lin.ft. masonry sewer, 4 ft. x 2 ft. 8 in.	11.00	8.00	8.00	10.00	6.00	8.00	6.20	7.25	4.66	5.50
125 lin.ft. masonry sewer, 3 ft. 9 in.	12.00	8.00	8.00	10.00	7.00	8.00	7.00	5.50	6.47	5.50
780 lin.ft. maintaining electric R.R. single track	5.00	10.00	2.50	2.50	4.00	10.00	6.00	0.25	2.00	5.50
Maintaining and underpinning subsurface railroad	2000.00	20,000.00	10,000.00	15,000.00	5000.00	40,000.00	6000.00	5000.00	7000.00	15,000.00
100 lin.ft. water pipe, 6-in.	1.00	1.00	0.75	0.60	1.00	1.00	1.10	2.00	0.31	0.80
100 lin.ft. water pipe, 8-in.	1.25	1.50	1.50	0.80	1.50	1.00	1.50	2.00	0.50	1.20
100 lin.ft. water pipe, 12-in.	1.50	2.00	1.60	1.20	2.50	1.25	2.00	2.00	0.60	1.50
100 lin.ft. water pipe, 16-in.	2.25	3.50	1.80	1.60	3.50	1.40	2.25	2.00	0.82	2.00
250 lin.ft. water pipe, 20-in.	3.00	4.00	2.00	2.00	4.00	1.50	2.50	2.50	1.04	2.25
500 lin.ft. water pipe, 30-in.	6.00	6.00	3.00	3.00	9.00	1.60	3.50	3.00	1.48	3.50
500 lin.ft. water pipe, 36-in.	7.50	10.00	3.50	3.60	12.50	1.80	5.00	4.00	2.81	4.00
250 lin.ft. water pipe, 48-in.	10.00	15.00	4.00	4.80	21.00	2.00	8.00	5.00	4.50	5.00
20 service connections for water-pipes	25.00	25.00	10.00	20.00	10.00	10.00	20.00	20.00	7.10	15.00
100 lin.ft. gas-pipe, 4-in. c.i.	0.60	1.00	0.60	0.40	0.75	1.00	1.00	1.00	0.31	0.70
100 lin.ft. gas-pipe, 6-in. c.i.	1.00	1.25	0.75	0.60	1.00	1.00	1.50	1.00	0.31	0.80
100 lin.ft. gas-pipe, 10-in. c.i.	1.25	1.50	1.60	1.00	2.00	1.00	2.00	1.50	0.60	1.30
100 lin.ft. gas-pipe, 12-in. c.i.	1.50	2.00	1.60	1.20	2.50	1.25	2.50	1.75	0.60	1.50
100 lin.ft. gas-pipe, 16-in. c.i.	2.25	2.25	1.80	1.60	3.50	1.40	3.50	2.00	0.82	2.00
400 lin.ft. by-passing pipe, 6-in. w.i.	2.50	3.00	3.00	3.00	3.00	1.00	2.50	2.50	1.02	3.50
100 lin.ft. by-passing pipe, 8-in. w.i.	3.00	3.50	3.50	3.50	4.00	1.00	2.50	3.00	1.37	4.00
4150 lin.ft. by-passing pipe, 12-in. w.i.	4.00	4.50	5.00	4.00	6.00	1.00	3.15	4.00	2.50	4.00
150 lin.ft. by-passing pipe on trestle, 16-in. w.i.	5.25	5.00	12.00	8.00	8.00	5.50	4.50	5.00	4.55	6.50
150 lin.ft. by-passing pipe on trestle, 8-in. w.i.	3.00	3.50	3.50	4.00	4.00	4.00	2.75	3.00	1.37	3.50
130 lin.ft. trestle for by-passing pipe	3.00	5.00	4.00	8.00	5.00	2.00	3.00	5.00	1.40	6.00
20 service connections for gas pipes	15.00	20.00	10.00	25.00	10.00	10.00	15.00	20.00	7.50	12.00
75 tons c.i. hub and spigot pipe, straight	100.00	50.00	40.00	40.00	60.00	50.00	35.00	30.00	32.85	32.00
18 tons c.i. hub and spigot pipe, special	120.00	75.00	65.00	80.00	75.00	80.00	70.00	60.00	78.00	65.00
2000 duct ft. electric ducts and conduits	0.50	0.30	0.50	0.80	0.50	1.00	0.65	0.35	0.38	0.25
500 lin.ft. electric ducts and conduits w.i. pipe, 3-in.	0.50	0.60	0.55	1.00	0.50	1.00	0.65	0.50	0.38	0.30
500 lin.ft. electric ducts and conduits w.i. pipe, 3½-in.	0.50	0.75	0.60	1.00	0.75	1.00	0.65	0.65	0.45	0.30
20 service connections for electric ducts	25.00	20.00	10.00	25.00	10.00	10.00	10.00	20.00	5.00	15.00
1000 duct ft. wooden electric ducts and conduits	0.25	0.75	0.50	0.80	0.50	1.00	0.65	0.40	0.20	0.25
Extended totals	$2,744,263	$2,763,210	$2,872,705	$2,938,725	$2,944,281	$3,049,727	$3,064,609	$3,143,174	$3,322,831	$3,347,811

	K	L	M	N	O	P	Q	R	S
606,000 cu.yd. earth excavation above m. h w...	$2.45	$2.42	$2.45	$2.75	$2.75	$3.00	$3.10	$3.10	$3.05
800 cu.yd. earth excavation above and below m. h. w. sewers	3.00	2.42	2.45	3.50	2.75	3.00	3.10	5.50	3.05
30 front ft. maintaining and underpinning buildings	50.00	40.00	40.00	40.00	50.00	30.00	50.00	100.00	60.00
Maintaining, moving and restoring slocum statue..	4000.00	8000.00	3000.00	5000.00	2000.00	8000.00	10,000.00	5000.00	2500.00
Maintaining, moving and restoring Maxwell tablet boulder	1000.00	5000.00	1000.00	750.00	1000.00	1000.00	1000.00	1000.00	600.00
98 maintaining, protecting and preserving trees..	60.00	175.00	100.00	50.00	10.00	200.00	51.00	50.00	150.00
138 replacing trees	65.00	125.00	150.00	90.00	10.00	100.00	50.00	80.00	120.00
89,400 cu.yd. concrete masonry	8.00	7.90	7.70	6.90	8.00	7.25	8.00	7.25	8.00
6000 cu.yd. protective concrete masonry outside w.p.	8.00	7.00	7.70	6.50	8.00	7.25	8.00	7.25	8.00
20 cu.yd. rubble stone masonry	10.00	7.00	7.00	7.00	8.00	7.00	8.00	10.00	7.00
20 cu.yd. dry rubble masonry	10.00	5.00	4.00	6.00	8.00	5.00	6.00	10.00	7.50
20 cu.yd. brick masonry	20.00	15.00	15.00	14.75	15.00	15.00	15.00	25.00	20.00
50 cu.yd. removal and disposal of foundations	6.00	15.00	10.00	4.00	8.00	4.00	5.00	50.00	5.00
70 cu.yd. hollow terra cotta brick or tile masonry	15.00	15.00	15.00	15.00	15.00	15.00	15.00	20.00	16.00
1000 bbl. grout of portland cement	1.50	2.50	2.50	2.65	1.00	2.00	1.50	3.00	2.50
1000 lin.ft. timber piles	0.25	0.25	0.50	0.50	0.25	0.20	0.25	1.00	1.00
2 M. ft. b.m. timber foundations	75.00	30.00	60.00	90.00	35.00	45.00	50.00	100.00	80.00
50 cu.yd. broken stone or gravel	2.50	2.50	2.50	2.50	2.00	2.50	2.00	3.00	3.00
14,700 sq.yd. waterproofing, 1-ply	0.41	0.40	0.45	0.45	0.35	0.40	0.40	0.45	0.40
100 sq.yd. waterproofing, 2-ply	0.84	0.70	0.60	0.80	0.60	0.65	0.65	0.60	0.80
39,800 sq.yd. waterproofing, 3-ply	1.00	1.00	0.95	0.90	0.75	0.75	1.00	0.90	1.10
100 sq.yd. waterproofing, 4-ply	1.25	1.30	1.20	1.25	1.25	1.00	1.25	1.30	1.60
100 sq.yd. waterproofing, 5-ply	2.00	1.60	1.50	1.70	1.50	1.25	1.50	1.50	1.80
100 sq.yd. waterproofing, 6-ply	2.25	1.90	1.80	3.00	2.00	1.50	1.90	1.75	2.00
100 sq.yd. waterproofing, dry ply	0.50	0.40	0.30	0.40	0.35	0.25	0.30	0.45	0.20
2000 cu.yd. brick in asphalt mastic	25.00	16.00	25.00	24.00	20.00	20.00	25.00	25.00	24.00
50 lin.ft. vitrified drain pipe, 12-in.	2.00	1.00	0.90	0.85	0.75	1.00	0.70	1.50	1.20
50 lin.ft. vitrified drain pipe, 10-in.	1.80	0.85	0.80	0.75	0.65	0.80	0.60	1.25	1.00
50 lin.ft. vitrified drain pipe, 8-in.	1.70	0.75	0.60	0.70	0.50	0.60	0.50	1.00	0.80
50 lin.ft. vitrified drain pipe, 6-in.	1.60	0.65	0.40	0.65	0.45	0.50	0.40	1.00	0.70
50 lin.ft. vitrified drain pipe, 4-in.	1.50	0.55	0.30	0.60	0.40	0.40	0.30	1.00	0.50
50 lin.ft. c.i. drain pipe, 6-in.	3.00	2.00	1.25	1.40	1.00	1.00	1.00	2.00	1.50
50 lin.ft. c.i. drain pipe, 4-in.	2.50	1.50	0.80	1.10	0.50	0.90	0.60	1.50	1.00
200 lin.ft. c.i. drain pipe, 10-in.	2.00	4.00	2.00	2.25	1.75	1.75	1.50	3.00	2.00
100 lin.ft. c.i. pipe and fittings, 3-in. extra heavy..	0.85	1.00	0.90	1.00	1.00	1.00	0.75	1.25	1.00
5100 lin.ft. c.i. pipe and fittings, 4-in. extra heavy.	1.25	1.50	1.00	1.25	1.25	1.00	1.00	1.25	1.20
300 lin.ft. c.i. pipe and fittings, 6-in. extra heavy..	1.35	2.00	1.50	1.60	1.50	1.50	1.25	1.75	1.60
200 lin.ft. c.i. pipe and fittings, 8-in. extra heavy..	2.00	3.00	2.00	2.25	2.50	1.75	2.00	2.00	2.00
442,000 duct ft. tunnel ducts	0.11	0.10	0.10	0.11	0.11	0.10	0.11	0.11	0.12
28,400 duct ft. railroad ducts	0.15	0.20	0.14	0.16	0.15	0.15	0.11	0.15	0.18
5300 tons riveted steel	61.00	62.00	65.00	64.50	60.00	57.00	63.00	62.00	68.00
7070 tons steel beams and shapes	54.00	55.00	57.00	53.50	50.00	50.00	57.00	55.00	62.00
960 tons steel rods and bars	42.00	45.00	55.00	51.50	55.00	55.00	50.00	100.00	70.00
100 tons miscellaneous iron castings	75.00	60.00	65.00	60.00	70.00	75.00	50.00	100.00	70.00
1 ton miscellaneous sewer irons	100.00	75.00	70.00	100.00	100.00	100.00	50.00	150.00	70.00
200 lb. special wire forms	0.10	0.25	0.10	0.20	0.10	0.25	0.10	0.12	0.25
12,900 lin.ft. seasoned oak or ash hand rail 1¼-in..	0.30	0.35	0.40	0.22	0.45	0.35	0.75	0.50	0.30
16,300 sq.ft. steel gratings for ventilation	1.40	1.60	1.60	1.45	1.25	1.40	1.50	1.50	1.75
3040 sq.ft. vault lights	1.25	1.20	1.50	1.10	1.00	1.50	1.50	1.50	2.00
680 sq.yd. sidewalks restored	2.50	1.75	2.00	1.50	2.00	2.00	2.00	2.50	3.00
100 sq.yd. repavement of roadways, macadam	1.50	1.25	1.25	1.45	2.00	2.00	1.50	4.00	1.50
1000 sq.yd. repavement of roadways, asphalt	2.50	2.50	2.75	2.50	2.50	2.50	2.50	3.50	2.75
900 sq.yd. repavement of roadways, granite block	2.50	1.75	2.75	2.25	2.50	2.00	2.50	3.50	3.00
11,300 sq.yd. repavement of roadways, Belgian block	1.00	1.75	3.00	1.25	1.50	1.50	0.75	3.25	1.00
1000 sq.yd. repavement of roadways, asphalt block	2.50	3.00	3.00	2.55	2.50	2.00	2.50	3.00	3.00
100 lin.ft. new bluestone curb	2.00	1.50	1.00	1.65	1.50	1.50	1.00	2.00	1.50
100 lin.ft. new 8-in. granite curb	3.00	3.00	1.20	2.50	2.00	2.50	2.00	3.00	1.50
140 sq.yd. repavement of roadways, brick	3.75	3.00	3.00	2.25	3.00	3.00	3.00	3.50	3.50
19,700 sq.yd. repavement of roadways, macadam and asphalt surface	1.25	1.50	1.50	1.45	1.50	2.00	1.50	3.00	1.25
4800 sq.yd. park surface restored	2.00	2.00	2.00	1.00	1.00	1.00	1.00	4.00	2.00
12,500 lin.ft. electric conduits, ¾-in. w.i.	0.20	0.30	0.15	0.21	0.15	0.20	0.20	0.20	0.25
750 lin.ft. electric conduits, 1¼-in. w.i.	0.32	0.60	0.30	0.30	0.25	0.30	0.30	0.35	0.30
750 lin.ft. electric conduits, 2-in. w.i.	0.40	0.75	0.40	0.45	0.30	0.40	0.40	0.45	0.30
4400 lin.ft. electric conduits, 1-in. w.i.	0.30	0.40	0.25	0.25	0.20	0.25	0.25	0.30	0.25
1100 c.i. outlet boxes	0.90	1.00	1.00	0.90	1.00	1.00	0.75	1.25	1.00
200 lin.ft. c.i. pipes and fittings, 6-in. extra heavy	3.00	2.00	1.50	1.60	1.50	1.50	1.50	2.00	1.50
150 lin.ft. c.i. pipes and fittings, 3-in. extra heavy	2.50	1.00	0.90	1.00	1.00	1.00	0.75	1.50	1.00
100 lin.ft. vitrified pipe sewer, 12-in.	3.00	2.50	3.00	2.25	2.40	2.50	1.50	2.00	3.00
100 lin.ft. vitrified pipe sewer, 15-in.	3.25	3.00	3.70	2.80	2.75	3.00	1.75	3.00	3.50
100 lin.ft. vitrified pipe sewer, 18-in.	3.50	3.50	4.20	3.40	3.25	3.75	2.00	4.00	4.00
100 lin.ft. vitrified pipe sewer, 20-in.	4.00	4.00	4.50	4.00	4.00	4.00	2.25	5.00	4.50
100 lin.ft. vitrified pipe sewer, 22-in.	4.25	4.50	5.00	4.50	4.50	4.50	2.50	6.00	5.00
200 lin.ft. vitrified pipe sewer, 24-in.	6.00	5.00	5.20	5.10	5.00	5.00	2.75	6.00	5.50
3 tons c.i. sewer pipe, straight	75.00	50.00	45.00	60.00	40.00	60.00	40.00	100.00	75.00
1 ton c.i. sewer pipe, special	105.00	100.00	70.00	100.00	75.00	90.00	70.00	150.00	100.00
80 lin.ft. pipe sewer egg-shaped 22½ in. x 15 in.	5.00	4.00	5.50	4.50	4.50	6.00	2.50	10.00	5.00
250 lin.ft. masonry sewer, 3 ft. 6 in. x 2 ft. 4 in.	8.00	6.00	6.50	7.25	6.25	8.00	4.00	15.00	7.00
160 lin.ft. masonry sewer, 3 ft. 9 in. x 2 ft. 6 in.	8.25	7.00	7.00	7.50	7.00	9.00	4.50	10.50	9.00
50 lin.ft. masonry sewer, 4 ft. by 2 ft. 8 in.	12.00	9.00	7.50	12.00	7.50	10.00	5.00	12.00	12.00
125 lin.ft. masonry sewer, 3 ft. 9 in.	12.50	9.00	6.10	7.50	8.00	11.00	5.00	10.00	12.00
780 lin.ft. maintaining electric R.R. single track	10.00	4.00	6.00	5.50	2.00	5.00	5.00	10.00	11.50
Maintaining and underpinning subsurface railroad	17,000.00	13,500.00	20,000.00	21,000.00	2000.00	10,000.00	15,000.00	25,000.00	26,000.00
100 lin.ft. water pipe, 6-in.	2.00	1.00	0.80	1.00	0.40	1.00	1.00	2.50	1.00
100 lin.ft. water pipe, 8-in.	2.25	1.25	1.10	1.25	0.60	1.50	1.25	2.75	1.50
100 lin.ft. water pipe, 12-in.	3.00	1.50	1.50	1.75	0.75	2.00	1.50	3.00	2.25
100 lin.ft. water pipe, 16-in.	3.50	2.00	2.00	2.50	1.00	2.50	2.50	4.00	3.50
250 lin.ft. water pipe, 20-in.	3.75	2.50	2.50	4.00	1.25	3.50	2.75	4.00	4.60
500 lin.ft. water pipe, 30-in.	5.00	3.50	4.00	5.00	2.50	9.00	5.00	6.00	6.00
500 lin.ft. water pipe, 36-in.	7.00	5.00	5.00	6.00	3.00	12.00	6.00	8.00	9.00
250 lin.ft. water pipe, 48-in.	9.00	9.00	6.50	8.00	4.00	20.00	12.00	10.00	12.00
20 service connections for water-pipes	20.00	25.00	12.00	20.00	25.00	20.00	10.00	25.00	25.00
100 lin.ft. gas-pipe, 4-in. c.i.	2.00	1.00	0.75	1.00	0.40	0.75	0.50	2.00	1.00
100 lin.ft. gas-pipe, 6-in. c.i.	2.25	1.25	1.00	1.15	0.50	1.00	0.75	3.00	1.50
100 lin.ft. gas-pipe, 10-in. c.i.	2.50	1.50	1.50	1.25	0.60	1.50	1.25	4.00	2.50
100 lin.ft. gas-pipe, 12-in. c.i.	3.00	2.00	1.80	1.50	0.75	1.75	1.50	5.00	3.50
100 lin.ft. gas-pipe, 16-in. c.i.	4.00	2.50	2.50	2.00	1.00	2.75	1.60	6.00	4.60
400 lin.ft. by-passing pipe, 6-in. w.i.	3.00	4.00	2.20	2.75	2.50	3.50	3.00	4.00	4.00
100 lin.ft. by-passing pipe, 8-in. w.i.	4.50	5.00	2.50	3.00	3.00	3.75	3.25	6.00	5.00
4150 lin.ft. by-passing pipe, 12-in. w.i.	4.25	6.00	4.00	3.75	3.50	4.00	4.00	7.00	5.00
150 lin.ft. by-passing pipe on trestle, 16-in. w.i.	8.00	10.00	5.00	4.75	4.00	5.00	8.00	15.00	10.00
150 lin.ft. by-passing pipe on trestle, 8-in. w.i.	6.00	8.00	3.00	3.00	2.50	4.00	2.00	10.00	5.00
130 lin.ft. trestle for by-passing pipe	10.00	9.00	3.00	5.00	3.00	3.00	2.50	8.00	6.00
20 service connections for gas pipes	20.00	25.00	12.00	20.00	25.00	15.00	10.00	20.00	30.00
75 tons c.i. hub and spigot pipe, straight	50.00	35.00	35.00	60.00	35.00	45.00	30.00	50.00	40.00
18 tons c.i. hub and spigot pipe, special	75.00	75.00	70.00	75.00	65.00	75.00	60.00	100.00	80.00
2000 duct ft. electric ducts and conduits	0.50	0.50	0.50	0.25	0.50	0.50	0.35	1.00	0.75
500 lin.ft. electric ducts and conduits w.i. pipe, 3-in.	2.00	0.75	0.45	0.55	0.50	0.60	0.50	1.00	0.75
500 lin.ft. electric ducts and conduits w.i. pipe, 3½-in.	2.00	1.00	0.50	0.70	0.50	0.70	0.60	1.00	0.80
20 service connections for electric ducts	30.00	25.00	12.00	20.00	25.00	25.00	10.00	50.00	30.00
1000 duct ft. wooden electric ducts and conduits..	0.90	1.00	0.50	0.75	1.25	1.00	0.50	1.00	1.25
Extended totals	$3,357,808	$3,358,111	$3,409,436	$3,445,596	$3,445,680	$3,583,550	$3,772,697	$3,860,786	$3,888,387

Contracts to Be Let

Bids received until May 17, 1915.

Contract 8—Nepaug Reservoir

Hartford, Conn.

Sealed proposals, addressed to the Board of Water Commissioners of the City of Hartford, for the construction of a new gravel surface road north of Nepaug Reservoir in the Town of New Hartford, Conn., will be received at the office of the Board, City Hall, Hartford, until 3:00 p.m., Monday, May 17, 1915.

Contract 8 comprises the construction of a gravel road about 1½ miles long through new country. The road will have a travel path 14 feet wide with 8 inches of gravel surfacing, together with the necessary culverts and guard fences.

Plans and specifications may be obtained at the office of the Chief Engineer, Pilgard Building, Hartford, Conn., on deposit of $5.00, which amount will be refunded if the plans and specifications are returned in good order before June 17, 1915. Specifications used in making a bid will be considered as returned.

A certified check or cashier's check for $2,000 must accompany each bid and the successful bidder will be required to furnish bonds in the sum of $20,000. The right is reserved to reject any and all bids.

It is expected to let contracts in the near future for the following work, which is in the immediate vicinity of this location and which may be looked over by prospective bidders at the same time that the road work on Contract 8 is examined:

Contract 9—East Dike. Contract probably will be advertised about June 1st and calls for the construction of an earth dam about 25 feet high and 600 feet long, containing about 28,000 cubic yards of earth embankment and 1,500 cubic yards of masonry core wall.

Contract 10—Richards Corner Dam. Contract probably will be advertised about June 15th and calls for the construction of an earth dam 70 feet high and 800 feet long, containing about 250,000 cubic yards of soil and gravel filling, 13,000 cubic yards of masonry core wall, 10,000 cubic yards of rock excavation and a concrete conduit and stream control for a drainage area of 62 square miles.

Later in the year a contract will be let for clearing the entire Nepaug Reservoir area of about 900 acres and grubbing about 125 acres of shore line.

BOARD OF WATER COMMISSIONERS,
WALTER S. GARDE, President.
FRED D. BERRY, Secretary.

CALEB MILLS SAVILLE, Chief Engineer.

Bids received until May 14, 1915.

To Paving Contractors

Greenville, S. C.

Sealed proposals on blank forms furnished by the City, and addressed to the City Engineer, will be received by the Mayor, City Council and Paving Commission until 11:00 A.M., May 14th, 1915, for furnishing material, equipment, labor, etc., to construct complete street and sidewalk paving in the City of Greenville, S. C.

The work consists of approximately 70,000 sq.yds. of Street Paving; 20,000 sq.yds. of Sidewalk Paving; 25,000 lin.ft. of Granite Curb; 10,000 lin.ft. of combination Cement Curb and Gutter; also, necessary storm sewers, catch basins, manholes, etc., to make a complete job.

Each bid on proposal No. 1 must be accompanied by a certified check made payable to the City Clerk and Treas. for not less than five per cent. (5%) of the total amount of bid. Each bid on proposal No. 2 must be accompanied by a certified check made payable same as above for not less than $2,000.00.

The right is reserved by the City to reject any or all bids.

Plans and Specifications can be seen at the Office of the City Engineer, Greenville, South Carolina.

JOHN B. MARSHALL, Mayor.
G. FRANK LEAGUE, City Clerk & Treas.
C. P. BALLENGER, City Engineer.

Bids received until May 11, 1915.

Sewers and Disposal Plant

Palisades Park, N. J.

SEALED PROPOSALS will be received by the Mayor and Council of the Borough of Palisades Park, N. J., at the Borough Hall, on Tuesday, May 11th, 1915, at 8 o'clock P.M., for the construction of a Sedimentation tank of the Imhoff type, Sludge drying beds and all other appurtenances, also, for a system of sewers, consisting of

about	1430	ft.	20	inch	Pipe sewer.
"	4380	"	15	"	" "
"	1450	"	12	"	" "
"	4940	"	10	"	" "
"	28390	"	8	"	" "
"	150		Manholes,		

and siphon under tracks of Northern Railroad, etc.

Plans and specifications can be seen at the office of Lemuel Lozier, Borough Engineer, Central Boulevard and Broad Avenue, Palisades Park, N. J.

Prospective bidders can obtain a copy of the plans and specifications for a deposit of Ten ($10.00) Dollars, which deposit will be refunded upon the return of the plans and specifications in good condition.

All proposals must be made upon the forms furnished and in full conformity with all the requirements and conditions expressed therein.

The work will be divided into two sections, "A," including the sewers, manholes, etc., "B," including the sedimentation tank, drying beds, etc.

Bidders are invited to offer proposals either for Section "A" or Section "B" or for both Section "A" and "B."

A certified check drawn to the order of the Mayor and Council of the Borough of Palisades Park in the sum of Five Thousand Dollars ($5000.00) must accompany each proposal for Section "A," in the sum of Two Thousand ($2000.00) Dollars for Section "B," or in the sum of Seven Thousand ($7000.00) Dollars for both Sections "A" and "B" as surety that contract will be entered into if proposal is accepted.

A Surety Company bond equal to the amount of the contract will be required in each contract.

Bidders are particularly notified that no bids will be received after the time named above, 8 o'clock P.M., May 11th, under any circumstance.

The Mayor and Council of Palisades Park reserve the right to reject any or all bids.

BENJAMIN E. BUDDS, Mayor.
GEORGE F. WILSON,
Chairman Sewer Committee.

EDGAR R. DAVIS, Borough Clerk.

Bids received until May 17, 1915.

Concrete Reservoir

Salem, Mass.

Sealed proposals will be received by the Director of Public Works of the City of Salem, Mass., until ten o'clock A.M., May 17, 1915, for the construction of a covered concrete reservoir of 10,000,000 gallons capacity.

Plans may be seen and specifications obtained at the office of the City Engineer at Salem, Mass., or at the office of William S. Johnson, Consulting Engineer, 101 Tremont Street, Boston, Mass. A deposit of five dollars ($5.00) will be required for copies of the plans, which deposit will be refunded upon the return of the plans in good condition within two weeks after the bids are opened.

Each bid must be accompanied by a certified check for three thousand dollars ($3,000) payable to the City of Salem. The bidder to whom the contract is awarded will be required to furnish a bond in the sum of twenty-five thousand dollars ($25,000).

The right is reserved to reject any or all bids at the discretion of the Director.

P. J. KELLEY,
Director of Public Works.

GEORGE F. ASHTON, City Engineer.